CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, September 1, 1904.

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PERSONAL.

Mr. Charles J. Carney has resigned as President of the Board of Water Commissioners of Dunkirk, N. Y.

Mr. John A. Keinle has been appointed Assistant Engineer for construction of proposed new water-works of Wilmington, Del.

Mr. Gillette E. Gordon has resigned as Superintendent of Water-Works of Connersville, Ind., and has been succeeded by Mr. Charles Achey.

Mr. Oscar Sanne, M. West. S. E., is now Assistant Engineer of the Scherzer Rolling-Lift Bridge Co., with offices at 1616 Monadnock Block, Chicago, Ill.

Mr. A. Philbrick has resigned as Engineer of Construction of the Tennessee Central R. R., to accept the position of General Superintendent with W. J. Oliver & Co., Railroad Contractors.

Mr. Herman Nieter, formerly with the Engineering Co. of America, has been appointed sales agent for the Hammond Iron Works, of Warren, Pa., with an office at 180 Broadway, New York.

Bruno von Enderes, Engineer of the Austrian Government Railway Department, and Charles Redlich, a civil engineer and contractor of Vienna, were recently in St. Louis, visiting the Louisiana Purchase Exposition.

Mr. Charles E. Webster, M. Am. Soc. C. E., Consulting Engineer of Buffalo & Susquehanna R. R. Co., has opened an office at South Bethlehem, Pa., and will give his attention to railroad surveys, locations, estimates, construction, valuation, examination and expert testimony.

Mr. Patrick Galvan has been appointed Chief Assistant in the Engineers' Department of the Panama Canal Commission, and has been instructed to sail for Panama as soon as possible. Mr. Galvan was formerly connected with the engineering corps of the Illinois Central Ry.

Commander James H. Perry, of the Bureau of Steam Engineering, having reached the age limit, was retired from active service Aug. 31 with the rank of Captain. Captain Perry was one of the last of the volunteer officers who entered the navy during the Civil War. He is now ill of typhoid fever in Washington, D. C.

J. W. Howard, Consulting, Civil and Mining Engineer, No. 1 Broadway, New York City has accepted an appointment to serve on the International Jury of Awards at the St. Louis Exposition. He rendered similar services at the Paris Exposition, where he was Vice-President in the Engineering Jury.

Wilhelm Hoff, Privy Councillor in the Railway Department of the Prussian Ministry, and Privy Councillor Felix Schwabach, have arrived in this country. Under instructions from the Prussian Minister of Public Works they will make a study of the organization and administration of American railways.

Mr. O. E. Strehlow, Assoc. M. Am. Soc. C. E., has resigned his position as U. S. Assistant Engineer, in charge of lock and dam construction on Warrior and Tombigbee Rivers, Ala., and in charge of U. S. Engineer Office, Dernapolis, Ala., and has accepted a position with Scribner & Hayworth, Contractors, as engineer of construction of a concrete bridge (Melan system) at South Bend, Ind.

In accordance with the policy authorized by Secretary Moody of encouraging specializing in various branches of naval science, the following line officers of the navy have been assigned to the special study of engineering subjects: Lieuts. W. Norris, J. F. Babcock and Farmer Morrison and Ensigns W. G. Dinan, H. T. Winston, W. W. Smith, Frederick W. Osburn and Carlos A. Gardner. These officers, after two years' shore duty, will be sent to sea as engineering officers, and upon their return to shore will be assigned to similar duty in the various navy yards.

The Board of Engineers appointed by the Commissioner of Public Works of California to examine the problem of the reclamation of the Sacramento and San Joaquin Valleys began its labors Aug. 9. Major T. G. Dabney, of Clarksdale, Miss., Chief Engineer Yazoo-Mississippi Delta Levee District, Mississippi, is head of the board, and associated with him are Major H. B. Richardson, of New Orleans, La., recently appointed to the Mississippi River Commission; Major H. M. Chittenden, Corps U. S. Engineers, and M. A. Nurse, of Sacramento, Cal., Engineer of California State Board of Public Works. A brief synopsis of the projected work of the Commission was given under Miscellaneous Contracts in our issue of Aug. 18.

OBITUARY.

Roger P. Sanderson, Superintendent of Streets of Dallas, Tex., was shot in that city Aug. 20, dying shortly after.

W. A. Field, founder of the Fulton Iron Works, of San Francisco, Cal., died at his home in Oakland, Cal., Aug. 14.

Charles W. Blodgett, who for 20 years was General Manager of Williamsburg Gas Co., of Brooklyn, N. Y., prior to its absorption by the Consolidated Gas Co., died in New York City last week. He was 54 years old.

Robert L. Dickinson, for a time with the Seaboard Air Line R. R., and later Resident Engineer on Paint Creek branch C. & O. R. R., died at his home at Pratt, Kanawha Co., W. Va., Aug. 27, after a lingering illness of several months.

Charles S. Rogers, a civil engineer in charge of a party of surveyors in the employ of the Western Pacific R. R. Co., was drowned in Bald Rock Canyon, near Oroville, Cal., Aug. 4. His body had not been recovered up to Aug. 24. Mr. Rogers was well known in the West, having been connected with the Engineering Department of the Union Pacific Ry., in Nebraska, Colorado, Utah, Nevada and California. He was about 45 years old.

Geo. F. Costello and Jas. J. Scuehan, members of the engineering corps of the Sanitary District of Chicago, were drowned Aug. 25 in the Illinois River, near Morris, Ill. Mr. Costello and Mr. Scuehan were members of the field party which is taking soundings of that section of the river, under the direction of E. H. Heilbron, Assistant Engineer. This is the first accident which has happened to any members of the Sanitary District since it was organized in 1889.

Walter Stewart Church, Civil and Mining Engineer, died at Geneva, N. Y., on Aug. 30, aged 72 years. Mr. Church was engaged, under the late Gen. George S. Greene, in the hydrographic surveys for the Croton watershed and in laying the water distribution system of New York City. In 1861 he was appointed Government Engineer of Peru, with headquarters at Lima. From 1876 to 1883 he was in practice as a mining engineer in various parts of the United States. In 1883 he took charge of the record department of the Croton Aqueduct Commission and held that position for some years.

Thomas S. Rubidge, a well known civil and hydraulic engineer, died at Cornwall, Ont., recently. A brief synopsis of his professional career is as follows: 1844-48, on engineering staff Williamsburg Canals, and Resident Engineer at Iroquois; 1852-60, engineering staff Grand Trunk Railway, in charge of surveys and construction between Cornwall and Prescott; 1860-63, engineering staff Board of Works, in charge of harbor and other surveys in Ontario; 1865-72, Intercolonial Railway surveys and construction in New Brunswick and Nova Scotia; 1872-82, St. Lawrence Canals, engineer in charge of surveys for a 14-ft. navigation, Lake St. Francis to Kingston; 1881-88, superintending engineer in charge of Trent Canal's surveys and construction; 1888-1904, Superintending Engineer St. Lawrence Canals, for 14-ft. navigation, including intermediate river reaches.

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ENGINEERING SOCIETIES.

COMING MEETINGS.

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
Sept. 1, 2, 3, 1904. Annual meeting at St. Louis, Mo. Secy., C. A. Waldo, Lafayette, Ind.
SOCIETY OF CHEMICAL INDUSTRY.
Sept. 7 to 12, 1904. Annual meeting at New York, N. Y. Gen'l Secy., C. G. Cresswell, 9 Bridge St., Westminster, London. Secy. New York Section, T. J. Parker, 25 Broad St., New York.
INTERNATIONAL ELECTRICAL CONGRESS.
Sept. 12 to 16. At St. Louis, Mo. Secy., A. E. Kennelly, Harvard University, Cambridge, Mass.
RAILWAY SIGNAL ASSOCIATION.
Sept. 13, 1904. Quarterly meeting at Chicago, Ill. (Great Northern Hotel). Secy., B. B. Adams, 83 Fulton St., New York.
ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 13, 14, 15. Annual meeting at St. Louis, Mo. Secy., C. E. Jones, Beardstown, Ill.
NEW ENGLAND WATER-WORKS ASSOCIATION.
Sept. 14, 15, 16, 1904. Annual convention at Holyoke, Mass. Secy., Willard Kent, Narragansett Pier, R. I.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
INSTITUTION OF ELECTRICAL ENGINEERS. (Great Britain.)
Sept. 14, 1904. Joint convention at St. Louis, Mo. Secy. Am. Inst. Elec. E., R. W. Pope, 95 Liberty St., New York.
AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 14 to 21. Annual convention at Duluth, Minn., and Houghton, Mich. Secy., R. W. Raymond, 99 John St., New York.
INTERNATIONAL ENGINEERING CONGRESS.
Oct. 3 to 8, 1904. Held at St. Louis, Mo., under the auspices of the American Society of Civil Engineers. Secy., Chas. Warren Hunt, 220 W. 57th St., New York.
AMERICAN BOILER MANUFACTURERS' ASSOCIATION.
Oct. 4, 5, 6, 1904. Annual convention at St. Louis, Mo. Secy., J. D. Farasey, Forest St. and Erie Ry., Cleveland, O.
AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 4, 5, 6, 1904. Annual meeting at St. Louis, Mo. Secy., G. W. Tillson, Municipal Building, Brooklyn, N. Y.
AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANTS' ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.
RAILWAY SIGNAL ASSOCIATION.
Oct. 11, St. Louis, Mo. Secy., B. B. Adams, 83 Fulton St., New York.
ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago. Secy., S. F. Patterson, Concord, N. H.
AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.
IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.
AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6, 1904. Annual meeting at New York City. Secy., F. R. Hutton, 12 West 31st St., New York.
AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

INTERNATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.—The ninth annual convention will be held at St. Louis, Mo., Sept. 13 and 14 1904. The Grand View Fraternal Hotel, situated very convenient to the Exposition grounds, South Side, has been selected as the official headquarters. Those intending to stop at this place should notify the hotel management as soon as possible, so that proper arrangements may be made and rooms reserved. The opening session will be held at 9.30 a. m., Tuesday, Sept. 13, in the meeting room of the hotel. As some five or more electrical societies will hold their conventions at St. Louis during the same week, in addition to which the International Electrical Congress will be held, there will no doubt be a very great gathering of electrical people. An invitation to participate in the International Electrical Congress has been extended to the association, and Messrs. W. H. Bradt, F. C. Mason and M. Petty have been appointed delegates. The opening ceremonies of the Congress will be held at 9.30 a. m., Monday, Sept. 12. To these ceremonies all our members are invited. On Thursday, Sept. 15, a joint session of the association and Section G of the Congress has been arranged. This section is devoted to "Electrical Communication," and several papers of great interest to the members of the association will be read and discussed. The sessions of the Congress will be held at the Coliseum, Olive and Thirteenth Sts., St. Louis. The secretary of the International Association of Municipal Electricians is Mr. F. P. Foster, Corning, N. Y.

WESTERN SOCIETY OF ENGINEERS.—The society made a trip from Chicago to Milwaukee on Aug. 26. The party comprised about 150 members and guests, and a special train was provided by the courtesy of the Chicago & Northwestern Ry., represented by Mr. E. C. Carter, Chief Engineer, and Mr. Wm. H. Finley, Principal Assistant Engineer. The train left Chicago at 9.15 a. m., and ran over the new Skokie cut-off built to enable fast through trains to avoid the suburban traffic of the numerous lake shore towns north of Chicago. Milwaukee was reached about 11.30, and several local members joined the party, being headed by Mr. C. T. Poetsch, City Engineer, and Mr. B. W. Perrigo, Assistant City Engineer. After a brief stop, the train proceeded north to a point beyond the track depression work, and was then stopped while a box lunch was served on the cars. After lunch the train took the ladies on to Whitefish Bay, while the engineers boarded a construction train, which was run slowly over the track depression work to allow of a good view of the work. A stop was also made to visit the works of the National Electric Co.

Leaving the train at the pumping station of the river-flushing works, the party visited this station and proceeded to the new breakwater, which consists of a concrete block superstructure on the substructure of the old crib breakwater. Returning to the railway, the special train was in readiness, and proceeded first to the new works of the Allis-Chalmers Co., and then to the new plant of the Milwaukee Coke & Gas Co., the principal feature of which is the manufacture of coke on a large scale in the Semet-Solvay Co.'s by-product ovens. The train then proceeded to Whitefish Bay, where supper was served on the lake front. The party started on the return trip at 7 p. m., leaving Milwaukee at 7.35 p. m., reaching Chicago at 9.45 p. m.

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CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

ASSISTANT SUPERINTENDENT OF CONSTRUCTION.—U. S. Civil Service Commission, Washington, D. C., will hold an examination at various places throughout the country, to secure eligibles to fill a vacancy in the position of Assistant Superintendent of Construction, at $900 per year, at Burlington, Vt.; a vacancy at Delaware City, Del., for duty at Fort Mott, N. J.; a vacancy at Fort Sam Houston, Tex. ($960 per year); and similar vacancies as they may occur in the Quartermasters' Department at Large.

The examination will consist of the subjects mentioned below, weighted as indicated:

Subjects.	Weights.
1. Mathematics (arithmetic, geometry, mensuration, algebra to quadratics, elements of plane trigonometry, and use of logarithm tables in calculations)	25
2. Elementary practical questions in building construction, and materials, surveying, leveling, etc.	35
3. Training and experience	40
Total	100

The requirements of this examination are much less severe than for the position of Superintendent of Construction in the Treasury Department. Further information may be obtained by writing to U. S. Civil Service Commission, Washington, D. C., for application form 1312.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Aug.				
Sept.				
2	Road	Harrisburg, Pa	S. & B. S.	8-11
2	Power house	Pittsburg, Pa	S. & B. S.	8-18
3	Quay walls, etc.	Portsmouth, N. H.	S.	8-11
•5	Stand-pipe	Great Falls, Mont	P., S. & B. S.	8-11
•6	Dam, etc.	Roswell, N. Mex	S.	7-21
6	Levee work	New Orleans, La	S.	9- 1
•8	Drain	Hackensack, N. J	S. & B. S.	8-25
•8	Lock gates, etc.	Pittsburg, Pa	S.	8-11
10	Store house	Norfolk, Va	S.	8-18
•13	Crib removal	Cleveland, O	P., S. & B. S.	8-18
•15	Irrigation canal	Montrose, Colo	P. & S.	8- 4
•17	Electric capstans	Wash., D. C.	S.	9- 1
17	Underground cables	Wash., D. C.	S.	9- 1
17	Concrete drain	Wash., D. C.	S.	9- 1
17	Road	Eulalia, Pa	S. & B. S.	9- 1
17	Road	Sweden, Pa	S. & B. S.	9- 1
24	Frame dwellings	N. Orleans, La	S.	9- 1
26	Roads	Cooper, Pa	S. & B. S.	9- 1
Oct.				
•5	Gunnison tunnel	Montrose, Colo	P. & S.	8- 4
15	Dry-dock	Washington, D. C.	S.	9- 1
Dec.				
•1	Bridge	Manila, P. I.	P., S. & B. S.	7-28

•Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Sept. 1. Electric wiring, Norwich, Conn............Aug. 4
Sept. 2. Power house, Pittsburg, Pa..............Aug. 11
Sept. 6. Street lighting, Philadelphia, Pa.........Sept. 1
Sept. 7. Street lighting, Terre Haute, Ind.......Sept. 1
Sept. 15. Electric light plant, Searcy, Ark.........Aug. 18
Sept. 26. Power franchise, Suisun, Cal............Aug. 25

BRIDGES.

Sept. 1. Bridges, etc., Cleveland, O..............Aug. 25
Sept. 1. Bridge, Fremont, O.......................Aug. 18
Sept. 3. Bridge, Indianapolis, Ind................Aug. 18
Sept. 3. Superstructure, Mt. Vernon, O.........Aug. 25
Sept. 3. Bridges, Celina, O.......................Sept. 1
Sept. 5. Bridge, Rapid City, S. Dak..............Sept. 1
Sept. 5. Bridge, Vicksburg, Miss...............Sept. 1
Sept. 5. Bridges, Elko, Nev.......................Sept. 1
Sept. 5. Bridge, etc., Warsaw, Ind..............Sept. 1
Sept. 5. Bridge, Jamestown, S. Dak..............Sept. 1
Sept. 5. Bridge, Castledale, Utah...............Aug. 25
Sept. 5. Wagon bridge, Versailles, Ind..........Aug. 25
Sept. 5. Bridge work, Wabash, Ind..............Aug. 25
Sept. 5. Bridges, etc., Salem, Ind..............Aug. 25
Sept. 5. Bridges, Indianapolis, Ind.............Aug. 18
Sept. 5. Bridges, steel, Natchez, Miss...........Aug. 18
Sept. 6. Bridge, Martinez, Cal....................Aug. 18
Sept. 6. Bridge, steel, Mitchell, S. Dak..........Aug. 18
Sept. 6. Bridge reconstruction, San Raefel, Cal...Aug. 25
Sept. 6. Superstructure, Cincinnati, O...........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 6. 22 bridges, Warrensburg, Mo.............Aug. 25
Sept. 6. Trestle, Yuba City, Cal..................Aug. 25
Sept. 6. Bridge, Laporte, Ind.....................Aug. 25
Sept. 6. Bridges, Plymouth, Ind..................Sept. 1
Sept. 6. Bridge abutments, Deadwood, S. Dak...Sept. 1
Sept. 6. Arches, Elkhart, Ind.....................Sept. 1
Sept. 6. Bridges, Mt. Vernon, Ind...............Sept. 1
Sept. 6. Bridge, Noblesville Ind.................Sept. 1
Sept. 6. Sale of spans, Bloomfield, Ind..........Sept. 1
Sept. 7. Bridges, Philadelphia, Pa...............Sept. 1
Sept. 7. Culverts, Pittsburg, Kan.................Sept. 1
Sept. 7. Bridge abutments, Delphi, Ind...........Aug. 25
Sept. 7. Bridge, Redding, Cal.....................Aug. 18
Sept. 7. Bridges, iron, So. Bend, Ind............Aug. 11
Sept. 8. Bridges, Towson, Md......................Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 12. Bridge, Idaho City, Idaho.............Aug. 25
Oct. 12. Bridge superstructure, Chicago, Ill......Aug. 18
Advertised, Eng. News, Aug. 18.
Sept. 12. Bridge plans, etc., Belleville, Ont.......Sept. 1
Sept. 12. Steel bridge, Wilkesbarre, Pa...........Sept. 1
Sept. 13. Bridge, etc., Peoria, Ill.................Sept. 1
Sept. 13. Iron bridge, Oakland, Md................Sept. 1
Sept. 14. Bridges, Columbus, O....................Sept. 1
Sept. 19. Steel bridge, East Greenville, Pa........Sept. 1
Sept. 20. Stone and iron bridge, Crown Point, Ind. Aug. 25
Dec. 1. Bridge superstructure, Manila, P. I......July 28
Advertised, Eng. News, July 28 to Dec. 1.

BUILDINGS.

Sept. 1. Building, Morganza, Pa...................Sept. 1
Sept. 2. Roofs, repairs, etc., New York, N. Y....Sept. 1
Sept. 2. High school building, Glens Falls, N. Y..Sept. 1
Sept. 2. Police station, Paterson, N. J...........Sept. 1
Sept. 2. Building, Philadelphia, Pa...............Sept. 1
Sept. 2. School, Chicago, Ill.....................Sept. 1
Sept. 2. Foundations, concrete, Pittsburg, Pa....Aug. 11
Sept. 2. Balconies, Brooklyn, N. Y................Aug. 25
Sept. 3. Court house, Louisa, Va..................Aug. 25
Sept. 3. Electric fixtures, Ft. Snelling, Minn....Aug. 25
Sept. 5. Jail, Opelousas, La. ....Aug. 4
Sept. 5. Jail, Aberdeen, Miss.....................Aug. 18
Sept. 5. Court house, Sylvester, Ga..............Sept. 1
Sept. 5. Post exchange, etc., Madison B'ks, N. Y. Sept. 1
Sept. 5. Church, Bellaire, O......................Sept. 1
Sept. 5. Court house, Grand, Okla................Sept. 1
Sept. 6. Library, Ardmore, Ind. T................Sept. 1
Sept. 6. Post office, Marshalltown, Ia. ....Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 7. Barracks, Ft. Douglas, Utah.. ....Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 7. Heating, ventilating, Ames, Ia..........Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 1.
Sept. 7. Storehouse, etc., Rochester, N. Y........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 7. Buildings, etc., New York, N. Y........Sept. 1
Sept. 8. Brick school, Monterey, Ind.............Sept. 1
Sept. 8. Court house, Minden, La.................Aug. 11
Sept. 8. Steam heating, Norwich, Conn... ....Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 9. Capitol repairs, Des Moines, Ia..........Aug. 25
Sept. 10. Public school, Greenville, Miss...........Aug. 25
Sept. 10. High school, Missoula, Mont. ....Jun. 30
Sept. 10. Hotel, Little Rock, Ark...................Sept. 1
Sept. 12. Post office, Kankakee, Ill.................Aug. 11
Sept. 12. Post office, Zanesville, O.................Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 1.
Sept. 13. School, Lexington, Miss..................Sept. 1
Sept. 13. Library, Marysville, O...................Sept. 1
Sept. 13. Plumbing, etc., San Jose, Cal............Sept. 1
Sept. 14. School, Chicago, Ill......................Sept. 1
Sept. 14. Post office, Laramie, Wyo. ....Aug. 4
Sept. 15. Post office, Grand Haven, Mich.........Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 15. Hotel, Montgomery, Ala..................Sept. 1
Sept. 15. School, Little Rock, Ark..................Sept. 1
Sept. 16. Post office, Marblehead, Mass............Aug. 18
Sept. 17. Schools, etc., Oakland, Cal...............July 28
Sept. 19. Wiring system, Greenville, Tenn.........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 20. Out-building, Washington, D. C.........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 20. Library, Cincinnati, O...................Sept. 1
Sept. 21. Electric wiring, Nashville, Tenn.........Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Sept. 22. Library work, New York, N. Y...........Aug. 18
Sept. 24. Frame dwellings, New Orleans, La.......Sept. 1
Sept. 27. Buildings, Mescalero N. Mex............Sept. 1
Sept. 30. Hall, Johnson City, Tenn................Sept. 1
Advertised, Eng. News, Sept. 1 to 22.
Sept. 30. School plans, Oakland, Cal..............Aug. 25
Oct. 1. Court house plans, Manitowoc, Wis......Aug. 18
Oct. 1. School, Somerville, Mass.................Sept. 1
Oct. 5. Post office, Pekin, Ill....................Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Oct. 10. Public buildings, Lawton, Okla..........Sept. 1
Advertised, Eng. News, Sept. 1 to Oct. 6.

WATER SUPPLY AND IRRIGATION.

Sept. 1. Pipe line, Coshocton, O..................Aug. 18
Sept. 1. Canal, excavation, Goshen, N. Y.........Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Sept. 2. Well, Duquesne, Pa......................Aug. 18
Advertised, Eng. News, Aug. 18 and 25.
Sept. 2. Water pipe, Chicago, Ill.................Sept. 1
Sept. 5. Water-works, Forestport, N. Y.........Sept. 1
Sept. 5. Water-works, Hawkeye, Ia..............Aug. 18
Sept. 5. Stand-pipe, Great Falls, Mont. ....Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 7. Laying mains, Portage la Prairie, Man..Aug. 18
Advertised, Eng. News, Aug. 18.
Sept. 9. Reservoir, etc., Cincinnati, O..........Aug. 18
Advertised, Eng. News, Aug. 18
Sept. 9. Water-works, Chetek, Wis..............Sept. 1
Nov. 9. Pumping engines, etc., New Orleans, La..Sept. 1
Sept. 9. Pumping engines, etc., New Orleans, La..Sept. 1
Advertised, Eng. News, Sept. 1 to Nov. 10.
Sept. 10. Water pipe, etc., Rockport Station, O....Sept. 1
Sept. 12. Stand-pipe, Sycamore, Ill................Sept. 1
Sept. 12. Wood water tanks, Port Townsend, Wash. Sept. 1
Sept. 12. Water pipe, Victoria, B. C...............Aug. 11
Sept. 13. Reservoir repairing, Columbus, O......Aug. 25
Sept. 13. Pipe, reservoir, Wenatchee, Wash.......Sept. 1
Sept. 14. Water pipe, Portland, Ore.............Aug. 25
Sept. 15. Canals, etc., Montrose, Colo..............Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 15.
Sept. 21. Pump, Canal Dover, O....................Sept. 1
Sept. 24. Water-works improvements, Astoria, Ore. Sept. 1
Oct. 1. Water-works, Chili ....Aug. 25
Oct. 5. Tunnel, etc., Montrose, Colo. ....Aug. 4
Advertised, Eng. News, Aug. 4 to Oct. 6.
Nov. 1. Water-works, etc., Summerside, P. E. I..Aug. 25

SEWERAGE.

Sept. 1. Sewers, Zanesville, O....................Aug. 18
Sept. 1. Sewer work, Milbank, S. D..............Aug. 25
Sept. 1. Sewers, Memphis, Tenn..................Aug. 18
Sept. 1. Sewers, Springfield, Ill..................Sept. 1
Sept. 1. Sewers, Williamsport, Pa.................Sept. 1
Sept. 1. Sewer bonds, Philadelphia, Pa...........Sept. 1
Sept. 2. Sewers, Akron, O.......................Aug. 25
Sept. 2. Sewer system, Laurel, Miss..............Aug. 11
Advertised, Eng. News, Aug. 11.
Sept. 2. Sewers, Wichita, Kan ....Sept. 1
Sept. 2. Sewer, Terre Haute, Ind.................Sept. 1
Sept. 2. Sewers, Youngstown, O.................Sept. 1
Sept. 3. Sewers, Seattle, Wash...................Aug. 25
Sept. 3. Sewer, Des Moines, Ia...................Aug. 25
Sept. 3. Sewer, Findlay, O.......................Aug. [illegible]
Sept. 5. Sewers, Nappanee, Ind..................Aug. 18
Sept. 5. Sewers, Mitchell, S. D...................Aug. [illegible]
Sept. 5. Sewers, Wahoo, Neb.....................Sept. 1
Sept. 5. Sewers, Richmond, Ind..................Sept. 1
Sept. 5. Sewers, Lock No. 4, Pa.................Sept. 1
Sept. 5. Sewer, Kane, Pa.........................Sept. 1
Sept. 6. Sewer, Olean, N. Y......................Sept. 1
Sept. 6. Sewers, Trenton, N. J...................Sept. 1
Sept. 6. Sewer system, Oradell, N. J.............Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 6. Sewers, St. Louis, Mo...................Aug. 25
Sept. 6. Sewer, Westfield, N. J..................Aug. 25
Sept. 7. Sewer, Dover, O.........................Aug. 25
Sept. 7. Drains, etc., Portland, Me...............Sept. 1
Sept. 7. Sewers, Brooklyn, N. Y.................Sept. 1
Sept. 7. Sewers, Marion, O.......................Sept. 1
Sept. 7. Sewers, etc., Philadelphia, Pa...........Sept. 1
Sept. 8. Sewer pipe, Brooklyn, N. Y..............Sept. 1
Sept. 8. Sewer, New Brunswick N. J..............Sept. 1
Sept. 8. Sewers, Fargo, N. Dak...................Aug. 25
Sept. 8. Sewers, Delphos, O......................Aug. 18
Sept. 8. Sewers, etc., Mansfield, O...............Aug. 25
Advertised, Eng. News, Aug. 25.
Sept. 8. Drain, Hackensack, N. J.................Aug. 25
Advertised, Eng. News, Aug. 25 and Sept. 1.
Sept. 12. Sewerage system, Washington, D. C....Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 8.
Sept. 12. Sewers, S. Brooklyn O..................Sept. 1
Sept. 16. Sewers, Lorain, O.......................Sept. 1
Sept. 20. Septic tank, etc., Tallahassee, Fla.......Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 15.
Nov. 1. Sewerage, Summerside, P. E. I...........Aug. 25

STREETS AND ROADS.

Sept. 1. Roads, Fort Du Pont, Del...............Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Sept. 1. Paving, S. McAlester, Ind. T............Aug. 25
Sept. 1. Paving, Cumberland, Md................Aug. 25
Sept. 1. Paving blocks, etc., Cleveland, O.........Sept. 1
Sept. 2. Macadamized pike, Cadiz, O.............Sept. 1
Sept. 2. Paving, Youngstown, O.................Sept. 1
Sept. 2. Grading, paving, Milwaukee, Wis.......Sept. 1
Sept. 2. Paving, Altoona, Pa......................Sept. 1
Sept. 2. Macadamizing, Paterson, N. J...........Aug. 25
Sept. 2. Paving, etc., Omaha, Neb...............Aug. 25
Advertised, Eng. News, Aug. 25.
Sept. 2. Road, Harrisburg, Pa...................Aug. 11
Sept. 3. Roads, Ottawa, O........................Aug. 18
Sept. 3. Paving, Seattle, Wash...................Aug. 25
Sept. 3. Grading, Cincinnati, O..................Aug. 25
Sept. 5. Grading, Vicksburg, Miss...............Aug. 25
Sept. 3. Grading, etc., Bay City, Mich............Sept. 1
Sept. 3. Road, East Haven, Conn.................Sept. 1
Sept. 3. Road, Middlebury, Conn.................Sept. 1
Sept. 3. Road roller, Bay City, Mich..............Sept. 1
Sept. 3. Brick paving, Centerville, Ia.............Sept. 1
Sept. 3. Cement curbing, Wichita, Kan...........Sept. 1
Sept. 5. Gravel road, Risingsun, Ind.............Sept. 1
Sept. 5. Paving, Richmond, Ind..................Sept. 1
Sept. 5. Paving, Webb City, Mo..................Sept. 1
Sept. 5. Sidewalks, Montgomery, Ala.............Sept. 1
Sept. 5. Paving, sewers, Pomeroy, O............Sept. 1
Sept. 5. Highways, Brazil, Ind....................Aug. 18
Sept. 5. Brick paving, Kokomo, Ind..............Sept. 1
Sept. 5. Macadam, Bedford, Ind...................Sept. 1
Sept. 5. Paving, etc., Indianapolis, Ind..........Sept. 1
Sept. 5. Brick paving, Mason, Mich...............Sept. 1
Sept. 5. Brick paving, Crawfordsville, Ind.......Aug. 25
Sept. 5. Roads, Bowling Green, Ind..............Aug. 18
Sept. 5. Roads, gravel, Greenburgh, Ind..........Aug. 18
Sept. 5. Macadamizing, Glenville, O..............Aug. 11
Sept. 6. Macadamizing, etc., Cincinnati, O.......Aug. 18
Sept. 6. Paving, Henderson, Ky..................Aug. 25
Sept. 6. Paving, St. Louis, Mo...................Aug. 25
Sept. 6. Paving, Rock Island, Ill.................Sept. 1
Sept. 6. Macadamizing, Marion, Ind..............Sept. 1
Sept. 6. Grading, paving, Cleveland, O...........Sept. 1
Sept. 6. Repaving, Philadelphia, Pa..............Sept. 1
Sept. 6. Pavement, etc., Lima, O..................Sept. 1
Sept. 6. Paving, New Albany, Ind................Sept. 1
Sept. 6. Macadamizing, etc., Hinsdale, Ill........Sept. 1
Advertised, Eng. News, Aug. 25.
Sept. 6. Wagon road grade, Ellensburg, Wash....Sept. 1
Sept. 6. Road, Ukiah, Cal........................Sept. 1
Sept. 7. Roads, etc., Portland, Me...............Sept. 1
Sept. 7. Asphalt pavement, New York, N. Y....Sept. 1
Sept. 7. Road, Ukiah, Cal........................Aug. 18
Sept. 8. Paving, Xenia, O........................Aug. 18
Sept. 8. Paving, Chillicothe, Mo.................Aug. 25
Sept. 8. Macadamizing, Riverside, Ind............Sept. 1
Sept. 8. Macadam, Towson, Md...................Sept. 1
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 8. Asphalt, etc., New York, N.Y..........Sept. 1
Sept. 9. Pavement, Delaware, O..................Sept. 1
Advertised, Eng. News, Sept. 1.
Sept. 10. Cement sidewalks, Washington, D. C....Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Sept. 10. Paving, etc., Ashtabula, O..............Aug. 25
Sept. 12. Curbing, etc., Muncie, Ind..............Aug. 25
Sept. 12. Grading, macadamizing, Wabash, Ind....Aug. 25
Sept. 12. Paving, Kent, O.........................Aug. 25
Sept. 12. Road, Harrisburg, Pa...................Aug. 18
Sept. 12. Pavement, Glens Falls, N. Y............Sept. 1
Advertised, Eng. News, Sept. 1.
Sept. 12. Paving, New Castle, Pa.................Sept. 1
Sept. 12. Road work, Toledo, O..................Sept. 1
Sept. 12. Graveling, Vincennes, Ind..............Sept. 1
Sept. 12. Paving, Oskaloosa, Ia..................Sept. 1
Sept. 14. Road grader, Chico, Cal................Sept. 1
Sept. 14. Grading, graveling, Cleveland, O........Aug. 25
Sept. 15. Paving, brick, Barnesville, O............Aug. 11
Sept. 15. Paving, etc., Marysville, O..............Sept. 1
Sept. 15. Macadamizing, Green Bay, Wis..........Sept. 1
Sept. 16. Paving, Lorain, O.......................Aug. 25
Sept. 17. Road, Sweden, Pa.......................Sept. 1
Sept. 17. Road, Eulalia, Pa.......................Sept. 1
Sept. 20. Sidewalks, Cincinnati, O................Sept. 1
Sept. 20. Macadamizing, Prairie Depot, O.........Sept. 1
Sept. 26. Roads, Cooper, Pa......................Sept. 1
Oct. 3. Road, Yuma, Ariz........................Aug. 11
No date. Paving, brick, Morris, Ill.................July 21
Advertised, Eng. News, July 21 to Oct. 13.

MISCELLANEOUS CONTRACTS.

Sept. 1. Levees, sewers, etc., Memphis, Tenn.....Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 1.
Sept. 1. Garbage removal, etc., Philadelphia, Pa...Aug. 11
Sept. 2. Tile drain, Green Valley, Ill............Aug. 18

Sept. 3. **Quay walls and pier, Portsmouth, N. H.** .... **Aug. 11**
Sept. 3. **Dredging, Albany, N. Y.** .... **Sept. 1**
Sept. 6. **Elevator, etc., Washington, D. C.** .... **Aug. 11**
Advertised, Eng. News, Aug. 11.
Sept. 6. **Dump boat, St. Louis, Mo.** .... **Aug. 11**
Sept. 6. **Dam, etc., Roswell, N. Mex.** .... **July 21**
Advertised, Eng. News, July 21 to Sept. 1.
Sept. 6. Garbage furnace, Crafton, Pa. .... Aug. 18
Sept. 6. Outfall drain, Watertown, Mass. .... Sept. 1
Sept. 6. Levee work, New Orleans, La. .... Sept. 1
Sept. 7. Drainage ditches, Albion, Ind. .... Sept. 1
Sept. 7. Pier work, Chicago, Ill. .... Sept. 1
Sept. 7. Electric cables, Gowanda, N. Y. .... Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Sept. 8. Cleaning lake, New York, N. Y. .... Sept. 1
Sept. 8. Jetty, New York, N. Y. .... Sept. 1
Sept. 8. Lock gates, Pittsburg, Pa. .... Sept. 1
Advertised, Eng. News Sept. 1 and 8.
Sept. 8. **Lock gates and anchorages, Pittsburg, Pa.** **Aug. 11**
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 9. Steel, iron, etc., Chicago, Ill. .... Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 10. **Window and door screens, Prescott, Ariz.** **Aug. 4**
Advertised, Eng. News, Aug. 4 to Sept. 1.
Sept. 10. Store house, Norfolk, Va. .... Aug. 18
Sept. 10. Earthwork, New Orleans, La. .... Aug. 25
Sept. 10. Dock work, Huntington, L. I. .... Sept. 1
Advertised, Eng. News, Sept. 1.
Sept. 13. Hire of dredging plant, Detroit, Mich. .... Aug. 25
Sept. 13. Crib removal, Cleveland, O. .... Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 1.
Sept. 17. Dredging, New London, Conn. .... Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 22.
Sept. 17. Electric capstans, Washington, D. C. .... Sept. 1
Sept. 17. Underground cables, Washington, D. C. .... Sept. 1
Sept. 17. Concrete drain, Washington, D. C. .... Sept. 1
Sept. 21. Stone wall, Chicago, Ill. .... Sept. 1
Sept. 22. Telephone system, Montrose, Colo. .... Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 29.
Sept. 22. Railway construction, Brazil .... Aug. 25
Sept. 22. Harbor improvement, Galveston, Tex. .... Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 22.
Sept. 22. **Library stack work, New York, N. Y.** .... **Aug. 11**
Sept. 24. Dredging, Mobile, Ala. .... Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 22.
Sept. 27. Machine tools, Washington, D. C. .... Sept. 1
Sept. 27. Dam, Cincinnati, O. .... Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 29.
Sept. 30. Steel lock gates, Louisville, Ky. .... Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 29.
Oct. 1. Cut granite, Washington, D. C. .... Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 29.
Oct. 1. Telephone service, Toronto, Ont. .... Aug. 25
Advertised, Eng. News, Aug. 24 to Sept. 15.
Oct. 12. Embankment, Chicago, Ill. .... Aug. 18
Oct. 15. Tug boat, Cuba .... Aug. 18
Oct. 15. Plans for harbor, Sweden (Foreign) .... April 21
Oct. 15. Completing dry-dock, Washington, D. C. Sept. 1
Nov. 10. Docks, moles and forts, Chili .... Aug. 18

RAILWAYS.

BIG BEND.—Judge W. J. Long, of Chelan, Wash., is reported interested in the construction of this railroad. It will be a standard gage steam railroad, about 95 miles in length, and the terminal will be at Ephrata, Wash., where machine shop, round house and office building will be erected. Previously noted.

CANADIAN PACIFIC.—Press reports state that contracts have been closed with the United States Steel Corporation and the Pennsylvania Steel Co. for 60,000 tons of steel rails at between $19 and $21 a ton.

CHICAGO, MILWAUKEE & ST. PAUL.—Line may be built to parallel the South Dakota Central Ry., now building between Sioux Falls and Colton, and which is headed for Madison, S. D. D. J. Whittemore, Ch. Engr., Chicago, Ill.

CHICAGO & NORTHWESTERN.—Construction of an extension of this line from Cody, Wyo., to Boise, Idaho, is said to be under consideration. According to advices received from Engineer E. Forshay the company asks the city of Boise to donate nine miles of right of way into the city, together with acreage aggregating 29 miles, for depots, yards, etc. Boise is also asked to give a bonus of $100,000. The plan of the Northwestern, it is understood, will be to push from Boise on to the Pacific coast, making its terminus at Eureka Bay, Cal. Extension would touch at Butte, Mont. E. C. Carter, Chicago, is Ch. Engr.

CONWAY, COAST & WESTERN.—F. A. Burroughs, vice-Pres., Conway, S. C., is reported as stating that this company has received an extension of the charter privilege granted to the Conway-Seashore Ry. Co., with privilege of building from Sumter, S. C., via Conway, to Southport, N. C., also a branch line from the Conway and Sumter line, starting near Cool Springs, S. C., to Marion, S. C. Line will connect at Sumter with the Atlantic Coast Line and the Southern Ry. and at Marion with the Atlantic Coast Line and the Carolina Northern.

DELAWARE & HUDSON.—Higley & Barber, of Sandy Hill, N. Y., have been awarded contract for grading the proposed extension from Thurman to Warrensburgh, N. Y., three miles. James MacMartin is Ch. Engr., Albany, N. Y.

EUREKA & PALISADE.—Surveys are now being run for extending the line from Eureka, Col., to Ely. M. L. Requa, Pres., 10 Front St., San Francisco, Cal.

GEORGIA.—Waynesboro citizens have organized, it is reported, to build a road to Clyo, 3 miles. Maj. William A. Wilkins is interested in the promotion of the line.

GEORGIA, FLORIDA & ALABAMA.—It is stated that the road will be extended from Cuthbert to Columbus, Ga. J. P. Williams, of Savannah, is Pres.

GRAND TRUNK PACIFIC.—Hon. Raymond Prefontaine, Minister of Marine and Fisheries, in a recent speech in Vancouver, B. C., is quoted regarding this railway, as follows: "Surveys have been almost completed, and it is the intention of the authorities of the Grand Trunk Pacific Railway to begin construction at both ends of the line, from Winnipeg west and the Pacific coast towards Winnipeg. And it is the intention of the government, who has control of the construction from Winnipeg to Moncton, to begin construction from Winnipeg east and from Moncton west."

Commissioners for the construction of the eastern division of the Grand Trunk Pacific have been appointed, as follows: F. B. Wade, M. P., for Annapolis, Chn.; C. A. Young, of Winnipeg, represents the west; Robert Reid, of London, represents Ontario; and Alfred Brunet, of Montreal, represents Quebec; H. D. Lumsden, of Toronto, Ch. Engr.; P. E. Ryan is Secy.

KANSAS CITY, MEXICO & ORIENT.—The Union and International Construction companies have been organized to build parts of this railroad. The Union Construction Co. has a capital of $3,000,000. It will build 420 miles of road from Kansas City to Lone Wolf, Okla. The International Construction Co., with capital of $10,000,000, will build 1,200 miles of road from the south line of Oklahoma to Topolobampo, Mex. It is reported that these companies were organized by A. E. Stilwell, Pres. K. C., M. & O.

KETTLE RIVER VALLEY.—Surveys are now being run for this line in Washington. The Canadian Parliament recently passed an act authorizing the company to increase its capital stock from $1,500,000 to $4,000,000 to construct a line from 50 miles up the north fork of Kettle River to Fire valley, thence to Vernon and on to Nicola and Spence's Bridge, B. C.; also from the junction of the east and west fork of the north fork of Kettle River to Killarney via Franklin camp. Company was granted an extension of five years for the completion of the company's authorized lines. H. W. Warrington, Grand Forks, B. C., is Ch. Engr., for the Kettle Valley lines.

LEECH LAKE & NORTHERN.—Right of way has been granted to the Standard Lumber Co., of Dubuque, Ia., for constructing a logging railroad to be known as the Leech Lake & Northern. It will commence on the north shore of Leech Lake, Minn., and run to a junction point with the main line of the Eastern division of the Great Northern Ry., at Cuba, Minn., near section 16, 145-30. There will be but 17 miles constructed at first, but it is the intention of the company to extend the road until there are 30 miles in operation. Contract has been let to the Swan River Logging Co., James Killorin, Gen. Mgr., to build and equip this road. Grading has begun. The Leech Lake & Northern was incorporated in Minnesota in July, with a capital of $50,000. Incorporators were M. H. McCarthy and W. H. Day., Jr., of Dubuque, Ia., and Alvin E. Clapp, of St. Paul.

LONE ROCK & LA VALLE.—Directors have voted that surveys be run for construction work. $103,000 has been pledged and subscribed. Preliminary survey from Woodlawn, Wis., to Cazenovia has been made. This company was organized at Sandusky, O., to build a line connecting Lone Rock with La Valle by way of Waite Mound, Hill Point, Ironton and other towns. Cap. stock, $25,000. Dr. George Jameson, Lone Brook, Wis., is Pres. Line to be 40 miles long.

LOUISIANA NORTHWESTERN.—It is reported that survey has been finished for this road from Natchitoches to Crowley, La., 125 miles. Construction work will begin soon. Hampden Story, Atty., Crowley, La., is reported as stating that Thos. H. Lewis, of Opelousas, is interested in a proposed road which, it is said, will connect with the Louisiana Northwestern, the ultimate purpose being to reach deepwater at Vermillion Bay.

LOUISVILLE & NASHVILLE.—It is said that this company will build a spur about 1½ miles long to Alabama Port, Ala. R. Montfort is Ch. Engr., Louisville, Ky.

NEW HOPE VALLEY.—Contract for building this road has been awarded by William Moncure and others of the directors to Farrell & Noe, of Pittsboro, N. C.

ORANGE & NORTHWESTERN.—It is reported that this road will be extended from Buna, Tex., 35 miles, to Newton. Connection will be made at the latter point with the Cotton Belt. M. L. Montanden, Orange, Tex., is Ch. Engr. Line recently was extended from Orange to Buna.

QUEBEC & LAKE ST. JOHN.—Surveys are being made for the building of the branch line to the headwaters of the St. Lawrence River at La Tuque, Que. A. E. Doucet is Ch. Engr., Quebec, Que.

ST. LOUIS & SAN FRANCISCO.—Branch road will be built from Lucedale, Miss., to Pascagoula. J. F. Hinckley is Ch. Engr., St. Louis, Mo.

SOUTHERN.—Right of way is reported secured for line between Bessemer and Mobile Junction, Ala. Surveys will be started soon. W. H. Wells is Engr. Construction, Washington, D. C.

SOUTHERN PACIFIC.—Surveys are said to be under consideration for proposed extension from Yuma, Ariz, to San Diego, Cal., via Lower California in Mexico. W. Hood is Ch. Engr., San Francisco, Cal.

TONOPAH.—Carson City, Nev., reports state that surveyors are in the field for the Goldfield extension. Officials of the company say the building of the road will follow in a short time. It is to be built through Columbia, directly to the January, Combination and Jumbo mines and to Goldfield and Diamondfield. Paul Inglenart, Tonopah, Nev., is Ch. Engr.

STREET AND ELECTRIC RAILWAYS.

CLINTON, MASS.—Worcester & Holden Street Ry. Co., A. B. R. Sprague, Pres., Worcester, Mass., according to reports, proposes to make the following improvements: Erection of a new power house near the present one in Jefferson; extension of the present road from the terminus in Jefferson; cable road from the Princeton side of Wachusett Mountain over the top and down to the Westminster side at Wachusett Park, and erection of new hotel on the mountain.

SCHENECTADY, N. Y.—Surveyors in employ of Schenectady Ry. Co. have been at work in Ballston Spa, N. Y., on projected extension of the road to Saratoga Springs.

WESTFIELD, N. Y.—Village Trustees have granted franchise to Buffalo, Dunkirk & Western R. R. Co. to build line through that village.

PITTSBURG, PA.—It is stated that the Pittsburg & Allegheny Valley Traction Co., capitalized at $1,100,000, and the Meyersdale & Salisbury Traction Co., capitalized at $1,500,000 will shortly let contracts for equipments. Contracts for construction of first road is held by Smethurst, Allen & Baker, Pittsburg, Pa., and it is understood that they will sublet part of the grading to McCann, Smith & Bennett, Greensburg, Pa. The road is to be about 40 miles long. Construction contract for the Meyersdale & Salisbury line is held by Thomas Degan & Co., Philadelphia. O. W. Kennedy, Pres., Orient Coke Co., Pittsburg, Pa., is Pres. of both roads.

HARRISON, N. J.—Public Service Corporation, Newark, N. J., has asked franchise for street railway on Fourth St., from Central Ave. south to Jackson St. bridge.

FRENCHPOINT, PA.—Contract for building electric road for Frenchpoint R. R. Co. from Ambridge, Pa., to this place is stated to have been let to Lorain Steel Co., Lorain, O., and to Sweeney & Co., Pittsburg, Pa.

ALLENTOWN, PA.—Allentown & Reading Street Ry. Co. which recently applied to councils for electric railway franchise in this place has filed its charter with county recorder. Company has capital of $30,000. H. E. Ahrens is Pres.

EASTON, PA.—Northampton Traction Co. has filed with County Recorder of Deeds, three extensions which it is proposed to make.

CUMBERLAND, MD.—It is reported that parties at head of Meyersdale & Salisbury Street Ry. Co. have acquired option on Cumberland & Westernport Electric Ry. R. H. Koch, Pres., with intention of securing through line to Johnston, Pa.

FREDERICK, MD.—Franchise of Baltimore & Frederick Electric Ry. Co., which expires Sept. 4 has been extended until Jan. 4.

JACKSONVILLE, FLA.—Atlantic & Pacific Street Railway and Security Co. has been incorporated with a capital stock of $200,000, to absorb the North Jacksonville Street Railway Co. and to extend the line to the suburbs of Oakland and Moncrief Springs. R. R. Robinson is Pres., and Fred. D. Robb, Supt.

HUNTSVILLE, ALA.—Huntsville Railway, Light & Power Co. may consider a proposition soon to build an electric railway to Monte Sano.

COLUMBUS, MISS.—F. M. Abbott, G. T. Heard and T. J. O'Neil, who secured franchise for street railway here, have given a $1,000-bond guaranteeing its construction. Work must begin before Dec. 25.

GULFPORT, MISS.—Most of the right of way for projected line of Coast Electric Ry. Co., which was chartered to build from Henderson Point to Point Cadet, 30 miles, is stated to have been secured. Construction will cost about $350,000, and it is stated that active work will soon begin at Gulfport, and be carried on as rapidly as possible in both directions. The electric power house will in all probability be located in this city.

BATON ROUGE, LA.—Surveys have been started for proposed route of an interurban electric railway to connect this place and New Orleans, and it is expected that these will be completed within 60 days. W. W. Hayden, formerly Ch. Engr., Yazoo & Mississippi Valley R. R., is in charge. Projected length is 110 miles.

CLEVELAND, O.—Negotiations are stated to be about closed for an elevated railroad, extending from Dover Bay on the west of the city to Wickliffe on the east and through the heart of the city. Boston capitalists have secured the right of way from the Nickel Plate R. R., which will use another route.

COLUMBUS, O.—Scioto Valley Traction Co., A. W. Jones, Engr., Columbus, is stated to have decided to extend the line from Circleville to Kingston this fall and from Kingston to Chillicothe next summer.

EAST LIVERPOOL, O.—Bids are reported asked by the Clerk of the Council until Sept. 13 for the construction, maintenance and operation of a single-track street railroad along a route established by Council by formal resolution, passed Aug. 23d, and on file in the office of the Clerk of the Council. Willus Davidson, Clk. of Council.

GOSHEN, IND.—This city has voted a $30,000 subsidy and Warsaw a $25,000 subsidy for the Warsaw & Goshen electric line. The right of way has been obtained from Warsaw to Milford, and the line has been surveyed to this city. It is hoped that grading will be finished before winter, and that the rails may be laid and overhead work be completed during the winter, so that the line may be in operation next spring or summer. J. M. Stuedbaker, South Bend, Ind., and J. F. Beyer, Winona, Ind., are interested.

HUNTINGTON, IND.—Promoters of the Portland, Montpelier, Warren & Huntington Traction Co., which has been financed and to which subsidies have been voted, are arranging to extend the line north from this city. Rome City is to be one of the points reached.

MUNCIE, IND.—Westinghouse Electric & Manufacturing Co., New York, is stated to be getting out plans, specifications and estimates for complete electrical equipment and for the construction of the Muncie & Northeastern traction line between this city and Toledo, O. Edward Finn and James Kautz, Toledo, O., are interested.

DETROIT, MICH.—Ontario Traction Co., C. M. Walker, Pres., has had its route from Walkville to Tecumseh resurveyed with idea of shortening the distance. It is expected that not much will be done toward building the line this fall.

CHICAGO, ILL.—South Side Elevated R. R. Co., Marcellus Hopkins, Gen. Mgr., has awarded contract to American Bridge Co. for 64,000,000 lbs. of iron and steel structural material to be used in construction of proposed stock yards and Englewood extension of the overhead line.

KEWANEE, ILL.—Kewanee, Cambridge & Genesee Ry. Co., which is to build an electric interurban line from Kewanee to Geneseo, has increased its capital stock from $100,000 to $850,000. All right of way is stated to have been secured. W. H. Schott, Chicago, Ill., is Pres., and R. B. Olmstead, Rock Island, Ill., is Secy.

MARSHALLTOWN, IA.—J. F. Tuthill, Engr. for J. G. White & Co., New York, has completed preliminary surveys for the interurban railway from this city to Grundy Center.

DULUTH, MINN.—It is stated that Duluth Superior Traction Co., Herbert Warren, Mgr., will not construct the proposed extension of the West Third St. line along Piedmont Ave. to 13th St., this year. It is probable that when it is constructed it will be a cable line.

GEORGETOWN, NEB.—Public meetings have been held here to promote project for building electric railway from this place to Mason City. C. B. Nichols, Cumro, Neb., is interested.

BURLINGAME, KAN.—Surveys for the Kansas City, Burlingame & Western Electric Ry. have been completed as far as this city, and right of way is now being secured. It is expected that construction work will begin on the eastern end of the line this fall.

OMAHA, NEB.—Promoters of the Omaha Northern Electric Ry., which was incorporated several months ago, assert that the road will be completed and in operation between Decatur and Tekamah this fall. Right of way between the two places has been secured and grading will begin within a few weeks. A power plant to cost $50,000 is to be erected at Decatur at once.

FARGO, N. DAK.—Council has granted Fargo & Moorhead Street Ry. Co. an extension of time until Nov. 1 for completing its street railway.

CODY, WYO.—Col. W. F. Cody is reported to be promoting project for building electric railway from this city to Yellowstone Park.

ST. LOUIS, MO.—The St. Louis, Webster & Valley Park Railway Co., recently reorganized, and which has a franchise to build a line from St. Louis to Manchester & Valley Park, filed a mortgage for $600,000 at Clayton, and with St. Louis and Philadelphia capital, will commence actual work in a few weeks, it is said.

HARRISON, ARK.—The Arkansas Traction Co. is stated to have matters in shape for a 30-mile electric railway from this place to Dodd City, Ark., through a rich zinc and lead district. Thomas Helm, Pres., Harrison, would like to receive propositions from capitalists, construction companies or railroad contractors to finance the road and to construct it. The line from Zinc to Dodd City, 10 miles, could be built alone, if desired.

BONHAM, TEX.—Representatives of Bonham, McKinney, Valdasta, Blue Ridge, Trenton and Randolph have signed agreement with H. Woodson, Chicago, Ill., representing syndicate of capitalists, whereby the latter will construct an electric railway to connect the places mentioned. It will be 40 miles long.

FORT COLLINS, COLO.—It is stated that engineering work for Northern Colorado Electrical Ry. Co.'s projected line will be completed soon. Wm. R. Rathvon, Boulder, Colo., is interested.

LIGHT, HEAT AND POWER PLANTS.

BANGOR, ME.—B. D. Whitney & Sons, Gardiner, Me., who have been making a survey of the water-power at Aroostook Falls, on the Aroostook River, have completed their work. The survey contemplates the construction of a dam and development of about 3,000 HP.

BURLINGTON, VT.—W. H. Freedman, Consult. Engr., writes us that contract for machinery for municipal electric light plant has been let to Bellman & Sanford, 149 Broadway, New York.

HARTFORD, CONN.—It has been voted by directors Hartford Electric Light Co. to recommend to stockholders issuing of $200,000 additional stock, to provide funds for improvements to be made on the property at Dutch Point, which the company has recently purchased.

BUFFALO, N. Y.—Buffalo General Electric Co. has filed certificate of an increase of its capital stock from $2,400,000 to $5,000,000.

WATERTOWN, N. Y.—Pilling & Crane, iron and steel manufacturers of Pittsburg, Pa., have purchased the Kearney water-power in St. Lawrence County, and it is said contemplate harnessing the falls for power at once.

HAMMONTON, N. J.—Hammonton & Egg Harbor City Gas Co., which is reported to have purchased plant of Atlantic County Electrical Co., will merge the lighting and gas plants on West End Ave., and expend $16,000 in building a power-house and installing new machinery.

PHILIPSBURG, PA.—Bids are asked until Sept. 6 by the Town Council for furnishing electric light for street purposes for term of one to five years, commencing Oct. 1, 1904. J. Albert Walton, Chn. Light and Heat Com.

MECHANICSBURG, PA.—Mechanicsburg Gas & Water Co. has purchased the gas plant at this city, and proposes to expend about $75,000 in improvements. The capacity of the gas tank is to be doubled and a filter will perhaps be installed in the water plant. H. L. King, Mechanicsburg, is Supt.

STEELTON, PA.—It is reported that outside capitalists are about to buy the franchise and plant of the Steelton Heat, Power & Light Co., Aaron Booser, Secy.

TAMAQUA, PA.—Buck Mountain Heat & Power Co., which proposes to erect large plant at Buck Mountain, will, it is stated, make proposition to supply this town with power.

WASHINGTON, D. C.—Secretary Morton has ordered the suspension of work of enlarging power plant at the Navy Yard, New York, and directed that this plant be connected with that of the Bureau of Yards and Docks.

BAINBRIDGE, GA.—City is stated to have voted to issue $20,000 bonds for the erection or purchase of an electric light plant. E. A. Urinberly is Cy. Clk.

DOUGLAS, GA.—C. E. Baker, of this city, has sold the $20,000 Douglas light and water bonds, and contract will be let in a few days for the erection of both systems.

ATTALLA, ALA.—This city is reported to have closed the contract with Capt. W. P. Lay, Gadsden, Ala., to furnish it with power for electric lights. Captain Lay has about completed his power-house and mill, four miles above Attalla.

ANDALUSIA, ALA.—The Andalusia Light & Water Co. has been incorporated with $35,000 capital. John McDavid, W. K. Hyer, Jr., Henry Hyer and Frank Sutter are interested. Mr. Sutter is stated to have secured franchise for construction of electric light plant and water-works, and contract for power-house has been let to the Andalusia Mfg. Co.

JASPER, ALA.—Jasper Water, Light & Power Co. has been incorporated with $50,000 capital by L. W. Lollar, J. M. and R. O. Cranford, D. K. Carter and R. Garvin.

COLUMBUS, O.—Electric Supply & Construction Co., Columbus, was awarded contract for installing electric light system, including generators, engines and switchboard, for the new building of the Columbus Savings & Trust Co., for $30,000.

HARRISON, O.—See under Water-Works.

ORLEANS, IND.—Plans and specifications have been completed and it is reported that Council is taking bids on erection of electric light plant.

TERRE HAUTE, IND.—Bids are asked by Board Public Works, S. O. Beach, Secy., until Sept. 7 for lighting streets and public parks of this city by electricity.

ST. IGNACE, MICH.—City has sold the $15,000 bond issue, recently authorized for providing new electric light plant.

ALTON, ILL.—Alton Gas & Electric Co. has been incorporated with $500,000 capital. C. A. Caldwell, G. M. Ririe, Levi Davies are interested.

CHICAGO, ILL.—Van Buren Electric Light Co. has been incorporated with $50,000 capital. Howard D. Maise, Thomas F. Low and Harold M. Dewar are interested.

WHEATON, ILL.—Dupage County Electric Light & Power Co. has been incorporated with capital of $30,000. E. C. Faber, D. J. Peffers, C. E. Flenner are incorporators.

AFTON, IA.—Town has voted to install a new electric light plant at a cost of $4,500.

MANSON, IA.—W. C. Eustice, Clinton, Ia., is stated to have purchased local electric light plant.

SIOUX CITY, IA.—Sioux City Gas & Electric Co., according to reports, is to expend about $20,000 in improvements. L. L. Kellogg is Mgr.

LARAMIE, WYO.—Council has awarded to H. D. McCutcheon and J. D. Boyle, of Pittsburg, Pa., a thirty-year franchise for a lighting plant and electric railroad system, and has signed a ten-year contract with them for lighting the streets of the city. The contractors are to begin work soon, and are to have lights on the streets by the first of January, 1905.

CENTRALIA, MO.—City has voted to grant ten-year franchise for electric plant to R. H. Baldridge. Plant is to be erected at once.

ST. PAUL, NEB.—City has accepted a street-lighting proposition from the Loup Valley Electric Co.

BOZEMAN, MONT.—Gallatin Power Co. has been organized with $150,000 capital to establish a power plant at Sheep Rock to generate electricity for various purposes. E. W. King, C. S. Hartman, S. A. Mendenhall, all of Bozeman, are interested.

HARRISBURG, ARK.—$4,000 has been raised here by subscription for establishing electric light plant and water-works. It is hoped to secure $5,000 more.

LEONARD, TEX.—Leonard Electric Light & Ice Co. has increased its capital stock from $15,000 to $20,000.

GRAHAM, TEX.—Preliminary steps have been taken towards the installation of an electric light plant here.

SEALY, TEX.—Local company is being organized here to establish electric light plant.

WICHITA FALLS, TEX.—Reported that the Wichita Falls Water Works Co. will install a new electric light plant here. R. C. Malone, Mgr., can give information.

WILBURTON, IND. TER.—It is stated that James Degnan, of Wilburton, will construct an electric light and power plant here to cost $50,000.

CLARKSTON, WASH.—The Lewiston-Clarkston Co., according to reports, will install a new auxiliary steam power plant, to have capacity of 1,000 HP., on banks of Snake River.

WESTON, ORE.—It is reported that work will be begun soon by the Umatilla Electric Power Co. on the development of 1,500 HP. on north fork of Umatilla River. J. W. Young and R. Jamieson are interested.

SUSANVILLE, CAL.—Mount Lassen Realty, Power & Development Co. has been incorporated, with $500,000 capital, by F. Hines, M. O. Folsom and others.

SAN BERNARDINO, CAL.—Seth Hartley, Colton, Cal., has been granted franchise for gas plant here, and proposes to have plant in operation in six months.

LOS ANGELES, CAL.—A. J. Morganstern, Los Angeles, is reported to be interested in a project for harnessing waters of the San Joaquin River above Pollasky, in Fresno County, and generating electric power for the surrounding agricultural and mining section. It is planned to cut a tunnel three miles long through the mountain 16 miles above Pollasky, which will divert 500 cu. ft. of water per second from the San Joaquin River and assure the development of 15,000 HP. at the generating plant.

VALLEJO, CAL.—Council has passed ordinance granting John Spelman the right to lay pipes and conduits in streets of Vallejo for supplying gas.

SANTA MARIA, CAL.—Santa Maria Light & Power Co. will, it is stated, enlarge its plant to enable it to furnish power to farmers for running pumping plants, etc.

BRIDGES.

CHICOPEE, MASS.—Plans are being made by White & Towne, Springfield, for a steel bridge over the Connecticut River; $150,000 has been appropriated.

NEW YORK, N. Y.—Additional copies of plans and specifications for Ayala bridge, Manila, P. I., are now on file at New York office of Engineering News. Bids are advertised for in Engineering News until Dec. 1.

WATERVLIET, N. Y.—Canton Bridge Co., Canton, O., has been awarded contract for iron work for an iron bridge at 15th St., at $2,119. Contract for excavation, etc., was awarded to Frank Besch, Troy, at $4,620.

JAMESTOWN, N. Y.—Bids are asked for building bridge, etc., until Sept. 5 by Andrew Blewett, County Audr.

WILKESBARRE, PA.—Bids are asked until Sept. 12 for building and completion of a steel bridge over the Spring Brook, Pittston Township. Bid shall include the substructure, superstructure and solid concrete floor. W. B. Allegar, No. 20 North Franklin St., is County Engr.; George R. McLean, Controller.

PHILADELPHIA, PA.—An ordinance has been signed by Mayor Weaver appropriating $1,000,000 for building new bridges. It is reported that work will be begun at once on Erie Ave. bridge that will cost $58,000; on 33d St., the abutments and piers for this bridge that will span the Connecting Railroad and the Philadelphia & Reading Railway, are already up. Cost, $110,000; $500,000 for continuing work upon Passyunk Ave. bridge over the Schuylkill River, which will be of the bascule or lift bridge type. It will cost about $800,000, and will join the southern section of the city with southern West Philadelphia. Three bridges on the line of the new Torresdale Boulevard will cost $182,000. One, to cost $100,000, will span Tacony Creek and Ashdale St.; another will cross the Philadelphia, Newtown & New York Ry., and the third will cross the North Pennsylvania Ry. Plans have been approved by the Board of City Surveyors for a concrete arch bridge over the Chestnut Hill Branch of the Philadelphia & Reading, at Graver's lane; also plans for the proposed bridge over the Richmond Branch of the same railroad, on the line of Erie Ave.

EAST GREENVILLE, PA.—Bids are asked until Sept. 19 for building a bridge over Perkiomen Creek in upper Hanover Township near this place. It is to be of steel on stone masonry.

GLENOLDEN, PA.—Council has passed ordinance granting permission to the Philadelphia, Baltimore & Washington Ry. Co. to erect a new 4-span bridge, with eight iron columns over Chester Pike at South Ave.

SWEDEN, PA.—Specifications for reinforced concrete bridges at Station 35 + 85 and Station 47 + 08 on Potter County road are on file at office of Engineering News. No date is specified.

EULALIA, PA.—Specifications for reinforced concrete bridges at Station 43 + 50 and Station 49 of Allegheny River road are on file at New York office of Engineering News. Date is not specified.

PHILADELPHIA, PA.—Bids are asked until Sept. 7 for construction (Schedule D) of bridges. Peter E. Costello, Dir. Pub. Wks.

OAKLAND, MD.—Bids are asked until Sept. 13 by A. G. Ross, Clk. County Comrs., for building an iron bridge 70 ft. long over the Youghiogheny River.

CAMBRIDGE, MD.—Bids for building bridges were opened by County Commissioners. Contract for bridge over Harrison ferry was awarded to the Cambridge Manufacturing Co., at $3,100, and for a bridge over the Narrows ferry, to W. Alvin Linthicum, at $3,470.

ANNAPOLIS, MD.—Bids were to have been received Aug. 30 for $20,000 Severn River bridge bonds. Charles Himmelheber is County Clk.

MIAMI, FLA.—See under Sewerage.

VICKSBURG, MISS.—Bids are asked by J. D. Laughlin, Chancery Clk., Warren County, until Sept. 5 for building bridge near Polk Hill, on road No. 35.

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COLUMBUS, O.—Bids are asked until Sept. 11 Board of County Commissioners for building two over the Scioto River.

CELINA, O.—Bids are asked until Sept. 3 by County Comrs. for the construction of the sub- and superstructure for a steel bridge over the River, on the State Line Pike, about one-half m of Wabash, O., in Washington Township; one length 120 ft., with 16-ft. roadway. Also a stee over the Wabash River, on the Herron road, ab miles southwest of Wabash, O.; one span, length with 16-ft. roadway. Also a steel bridge over the River, on the Krenning road, about 1½ miles no of Macedon, O.; one span, length 100 ft., with 16-ft way. Also a steel bridge over the Wabash River, Grimmie road, about four miles north of Ft. Re O.; one span, length 100 ft., with 16-ft. roadway. Weis, Audr.

TERRE HAUTE, IND.—Engineers for the Souther diana Ry. Co. are reported to be taking soundin two bridges to be built by this company about a above Ft. Harrison on the Wabash River. One will be a temporary structure and the other a perm one. J. W. Thompson, City, is Gen. Supt.

SOUTH BEND, IND.—Contract for Jefferson St. b has been awarded to Scribner & Heyworth, of Chi who were the lowest bidders, at $119,000 for bridg $6,600 for 20,000 ft. of piling. A. J. Hammond, C. E., Designing Engr. Bridge will be of concrete with arches.

ELKHART, IND.—Bids are asked until Sept. 6 for structing concrete arch across waterway on West vision Ave., Concord Township. O. H. Sweitzer, Audr

BLOOMFIELD, IND.—County Commissioners on Sep 6 will sell to the highest bidder two old spans of the liston bridge now in White River. Bids to be received for the entire two spans and also bids to take the en spans out and leave the joists at eye beams, for the u of the county, purchaser taking balance of bridge, b ders to take it all out of river. William H. Deckard, Audr.

MOUNT VERNON, IND.—Bids are asked until Sept. for building two steel bridges. Selas O. Howard, Audr

WARSAW, IND.—Bids are asked until Sept. 5 for building one stone arch and one log and brush bridge. Egbert Gawthrop, Comr.

PLYMOUTH, IND.—Bids are asked until Sept. 6 for constructing two iron bridges and four concrete abutments for same in Union Township; two stone arch bridges in Bourbon Township and in North Township; also a concrete arch in Center Township. H. L. Singrey, County Audr.

NOBLESVILLE, IND.—Bids are asked until Sept. 6 for bridge work. H. L. Findley, Engr.

PEORIA, ILL.—Bids are asked until Sept. 13 by John Newsam, Chn. special bridge committee, for construction of steel bridge and approaches across the Illinois River at Bridge St. W. G. Olwin, Cy. Comptroller. W. L. Stebbings, Civ. Engr., 1110 Monadnock Blk., Chicago. Robert Joos, Cy. Clk.

LA CROSSE, WIS.—Plans for a steel structure to replace the Rose St. viaduct are said to be under consideration by the Chicago, Milwaukee & St. Paul Ry. Co. E. X. Hastings, City, is Division Supt.

OSHKOSH, WIS.—Karl L. Lehmann, 910 Opera House Bldg., Chicago, writes us that plans and specifications for substructure of Main St. bridge are now ready.

WATERLOO, IA.—Barney Marsh, of Des Moines, has been awarded contracts for two bridges: Lincoln St., cement, $8,990; Webster St., cement, $2,540.

OWATONNA, MINN.—Bids are asked until Sept. 6 for construction of two steel I-beam bridges, 36 ft. long, 16 ft. wide. C. J. Servatius, Cy. Recorder.

SALINA, KAN.—Missouri Valley Co., was lowest bidder, at $2,800 for building a bridge over Saline River. Commissioners may readvertise, as lowest bid was $1,000 in excess of estimated cost.

PITTSBURG, KAN.—Bids are asked until Sept. 7 (readvertisement, former bids having been rejected), for constructing two brick or concrete arch culverts, 60 ft. long. Chas. D. Bell, Cy. Engr.

NEBRASKA CITY, NEB.—Chas H. Busch, County Clk., writes that bids are asked until Sept. 20 for construction of the following steel bridges: One 50-ft. span, one-half miles north of Berlin, 14-ft. roadway in the clear, set on 32-in. steel tubes, 24 ft. long, with 12-ft. approaches on each end; one 100-ft. span, one mile east of Talmage, 16-ft. roadway in the clear, set on 36-in. steel tubes, 32 ft. long, with 24 and 32-ft. approaches; one 70-ft. span, at Douglas, 14-ft. roadway in clear, set on 34-in. steel tubes, 26 ft. long, with 20 and 28-ft. approaches. Bridges must be complete, including painting, railings, bridgings, etc., with either rivet or pin connection.

FARGO, N. DAK.—Bids are asked until Sept. 26 for construction of the following bridges: One 16-ft. bridge, between Sec. 31, Reed, and Sec. 6, Barnes Township; one 16-ft. bridge between Sec. 36, Berlin, and Sec. 2, in Raymond Townships. Arthur G. Lewis, County Audr.

DEADWOOD, S. DAK.—Bids are asked until Sept. 6 for excavation and concrete for bridge abutments on county bridges on road between Deadwood and Lead. E. H. Warren, County Audr.

RAPID CITY, S. DAK.—Bids are asked until Sept. 5 by the Board of County Comrs. for constructing a bridge over Rapid Creek. L. C. Trowbridge, County Audr.

ELKO, NEV.—Bids are asked by A. G. Dawley, County Clk., until Sept. 5 for building two double-truss bridges at the crossing of the Owyhee River, about 1½ miles south of Mountain City. Phil Snyder, County Comr., may be addressed at Tuscarora.

BELLEVILLE, ONT.—Bids are asked until Sept. 12 for plan, strain sheets and specifications for a steel overhead truss highway bridge to be erected upon abutments and piers at the site of O'Brien bridge, about 8 miles north of Belleville. Four-span bridge: South span 101 ft. 6 ins. long from pin to pin; next span, 76 ft. 8 ins.; next span, 70 ft. 8 ins.; north span, 107 ft. Roadway 16 ft. wide in the clear; steel joists and cement and expansion metal floor; bridge to carry moving load of 120 pounds to each sq. ft. of floor. Piers and abutments will be up by Oct. 1, steel superstructure and floor to be finished by Nov. 15. Wm. R. Aylesworth, County Clk.

BUILDINGS.

NEW BEDFORD, MASS.—John B. Sullivan & Son, New Bedford, were awarded contract, at $51,900, for Donaghy St. school building. W. H. & J. F. Whalen, Fall River, at $5,133, were lowest bidders for ventilating and heating apparatus.

HARTFORD, CONN.—Plans have been drawn by Bayley & Goodrich, Archs., for proposed industrial building. It is proposed to have a 4-story building, brick, slow-burning mill construction, 320 × 50 ft., with a rear ell 25 × 50 ft. for stairway, elevator and storage, and a building of similar dimensions for boiler house. Hon. Wm. F. Henny is Chn. of Gen. Com. Cost will be about $100,000.

NEW HAVEN, CONN.—John Lyman Foxen, Arch., 120 Boylston St., Boston, writes that contract for Knights of Columbus building has been awarded. Will be a 4-story office building, terra cotta, steel frame. Reported cost, $[illegible],000.

BROOKLYN, N. Y.—It is reported that bids are being taken by Rich & Weber, 40 Summer Ave., for three tenement houses, which they will build at Jefferson St. and Irving Ave. Estimated cost, $54,000. Buildings to be four stories high, 29 × 76 and 35 × 76, and contain 16 a[illegible] 10-family apartments. W. B. Willis, 17 Troutman St., Brooklyn, is Arch.

Separate contracts will be let, it is said, for heating, electric work, plumbing and plumbing fixtures for building that will be erected on Montague St., 250 ft. east of Clinton St., for the Lawyers' Title Insurance Co., 37-39 Liberty St., New York. Helmle & Co., 44 Court St., Brooklyn, are Archs. Plans provide for a 10-story building, 50 × 80 ft., brick, stone and iron. Cost, about $125,000. Previously noted.

NEW YORK, N. Y.—Bids are asked by State Commission in Lunacy, Albany, until Sept. 7 for addition to staff building, consisting of construction, heating and plumbing and the construction of a solarium for ward 17, at the Manhattan State Hospital, Ward's Island West, New York city. Drawings and specifications may be consulted and blank forms of proposals obtained at office of F. A. Wheeler, purchasing steward, 309 Broadway. G. L. Heins, State Arch., Albany. T. E. McGarr, Secy. Comn.

Bids are asked until Sept. 2 by the Department Public Charities for furnishing material and making repairs to roofs, leaders, skylights, etc., of various buildings at City Hospital; also furnishing material for new gutters and repairing roof of nurses' home, Metropolitan Hospital, Blackwell's Island. Jas. H. Tully, Comr.

It is reported that contracts will be let for the chapel of Columbia University, to be erected on Amsterdam Ave. north of 116th St., for which plans have been filed by Howells & Stokes, Archs., with whom McKim, Mead & White are associated as consulting architects for the building. Chapel will be fireproof, 58 × 141 ft., basement and gallery in addition to the main assembly floor, 114 ft. high, large dome surmounted by a cupola, facades of granite and limestone and brick, decorative frieze of marble; dome will have a series of windows of ornamental glass. Cost, $250,000.

BUFFALO, N. Y.—Bids have been received by William Hamlin for storage warehouse to be erected at Swan and Center Sts. Building will be five stories high, 80 × 185 ft., brick and steel, fireproof. Esenwein & Johnson are Archs. Cost, about $125,000.

GLENS FALLS, N. Y.—Bids are asked by Board Education for building high school, until Sept. 2.

FLUSHING, N. Y.—Plans have been received by Capt. John F. Klein, 17th Separate Company, for new State armory to be erected on Broadway. It will be 100 × 192 ft., of brick, with stone trimmings. Previously noted.

MADISON BARRACKS, N. Y.—Bids are asked by Capt. Hugh D. Wise, Q. M., until Sept. 5 for constructing post exchange and gymnasium building at this post.

PATERSON, N. J.—Bids are asked by Chas. W. Morgan, Chn. Police Comn., until Sept. 2 for police station and patrol stable. Wm. T. Fanning, Arch.

Chas. Edwards, 129 Market St., is preparing plans for a 6-story building to be erected at Market and Hamilton Sts. by the Silk City Trust Co. Probable cost, $200,000.

CAMDEN, N. J.—It is reported that the contract to install a ventilating, heating and lighting plant in the court house has been secured by J. Buchanan & Co., of Philadelphia, Pa., for about $49,480.

JERSEY CITY, N. J.—Board of Education has awarded contracts for extensions to public schools 8, 9, 12, 24 and 25, aggregating $100,945, as follows: Masonry—No. 8, Charles Kuederly, $8,200; No. 9, Patrick Kenny, $17,800; No. 12, Charles Kuederly, $8,520; No. 24, Gavin & Davis, $7,600; No. 25, John J. Rowland & Son, $11,091. Carpenter work—No. 8, Lane & Russell, $4,050; No. 9, Barron Donalscn, $15,875; No. 12, Lane & Russell, $5,190; No. 24, A. J. Dittmar & Son, $3,700; No. 25, Barron Donalson, $6,629. Plumbing—No. 8, Hetherton Bros., $156; No. 9, Fergus J Keleher, $1,415; No. 12, Hetherton Bros., $276; No. 24, Hetherton Bros., $1,582; No. 25, Hetherton Bros., $396. Heating—No. 8, Hetherton Bros., $896; No. 9, Hetherton Bros., $906; No. 24, Hetherton Bros., $796; No. 25, John J. McLaughlin, $1,276.

MORGANZA, PA.—Bids are asked until Sept. 1, 12 o'clock noon, by Pennsylvania Reform School for erection of school building. E. M. Butz Co., Archs., 604 Bessemer Bldg., Pittsburg. A. G. Happer, Chn. Com.

MUNHALL, PA.—D. S. Platt, Arch., Homestead has awarded George M. Hall Co., of that place, contract for constructing a 2-story brick convent, parish house and school on Ninth Ave. and Library Pl., for St. Michael's Slavish Roman Catholic congregation. Cost, $45,000.

ALTOONA, PA.—W. B. Brown and Gillespie & Carrel, Archs., 1123 Broadway, New York, have prepared plans for new church, 40 × 75 ft., here. Rev. B. C. Connor, City, is pastor. Cost, $50,000. Now ready for bids.

New high school, to cost $200,000, will be erected at Sixth Ave. and 15th St. by Board of Education, 186 × 160 ft., 40 rooms. Architects are Robinson & Winkler, Park Building, Pittsburg, Pa. C. M. Piper, 1205 Sixth Ave., City, is Secy. Bd. of Education. Bids now being taken.

Robinson & Winkler, Archs., Park Building, Pittsburg, have prepared plans for bank and office building for Central Pennsylvania Trust Co., City. Cost, $50,000; 34 × 120 ft., four stories. Estimates are now being taken.

PITTSBURG, PA.—U. L. J. Peoples, Arch., City, has been selected to draw plans for new schoolhouse for the Greenfield district, City. Cost, $50,000.

Charles H. Craig, City, will erect five high-class dwelling houses in Maple Grove Place, Sewickley. Cost, $26,000 each.

James W. Patterson, Vice-Pres. of the Wabash-Pittsburg Terminal Ry. Co., has let contract for foundation work of new freight station at Liberty and Ferry Sts. to James Corcoran, at $75,000. Freight station when completed will cost $300,000.

PITTSBURG, PA.—F. G. Scheibler, Jr., Arch., Wilkinsburg, Pa., has been selected by Swissvale Board of Education to prepare plans for two 8-room schoolhouses, at Swissvale. Cost, $40,000 each.

It is reported that the Joseph Patterson estate (Commonwealth Real Estate Co., trustee) will erect large hotel on Liberty Ave., betwen Tenth and Eleventh Sts., in 1905. Preliminary plans have been drawn for 10-story building. Cost, $350 000.

Mortgage Banking Co., Fourth Ave., City, will erect 40 modern dwelling houses in the 15th Ward, Allegheny City. Cost, $125,000. Houses will have six to eight rooms each, with complete bath rooms.

SCRANTON, PA.—Bids are asked until Sept. 1 for purchase of $100,000 police and fire headquarters building and alarm system bonds. Alex. T. Connell, Mayor.

DUQUESNE, PA.—Contract to erect the Holy Trinity Slavonic Church here has been awarded to F. C. Shallenberger, at about $75,000.

SOMERSET, PA.—Entire contract for building the Somerset County court house was let to Caldwell & Drake, Columbus, Ind., at $247,444. John R. Boose, County Clk.; J. Chas. Fulton, Arch., Uniontown, Pa. New building will be 240 × 110 ft., of Bedford limestone. Complete list of bidders was given in issue of Aug. 25.

PHILADELPHIA PA.—Bids are asked by David J. Smyth, Dir. Dept. Public Safety, 217 City Hall, until noon, Sept. 2, for construction of buildings for the Home of Indigent, 41st Ward. Philip H. Johnson, 1825 Land Title Bldg., is Arch.

Plans for $70,000 Carnegie library to be erected at Walnut and 40th Sts. are being prepared by C. C. Zantbinger, 263 South Fourth St., the Arch.

It is reported that John Maddock will erect 138 brick, 15 × 60 ft., dwellings at 61st St. and Lansdowne Ave. Cost, about $330,000.

Brick power house will be erected at Second and Luzerne Sts., to cost $103,000. Henderson & Co., contractors, 1221 Arch St.

Plans have been filed and permits issued for a 4-story brick and stone dwelling, 20 × 35 ft., to be erected at 1723 Spruce St.; cost, $40,000. Jacob Myers & Sons, contractors, 608 Witherspoon Bldg.

Cramp & Co. have been awarded contract, at $86,900, for construction of the building for the Marine Corps at Broad St. and Washington Ave. Rankin, Kellog & Crane, City, are the Archs. It was reported that Kendrick & Roberts, City, were lowest bidders, at $79,777.

Architects have been invited to prepare plans in competition for the proposed new bank and office building to be built at 1324 Chestnut St., for the Tradesmen's Trust Co. Twelve stories and basement and sub-basement, of fireproof construction. All plans are due Oct. 1.

WASHINGTON, D. C.—Plans are reported being prepared by Cope & Stewardson, Philadelphia, Pa., for the stone work for the municipal building. It is said that they will be completed by Sept. 15, and bids for the work will be asked by the Commissioners. Capt. Chester Harding, Engrs., has charge of this work, and will supervise the construction of the building.

Local press reports state that competitive plans are to be received by the Commissioners until Nov. 1 for the Police Court building that plans have been approved for. It will be erected on D St., N. W., between Fifth and Sixth Sts. Two stories and basement, 85 × 124 ft.

It is reported that John L. Smithberger, Arch., Corcoran Bldg., is preparing plans for an industrial building for District. Brick and stone, three stories.

BALTIMORE, MD.—Norcross Bros., contractors, have received permit to proceed with the repairs to the Equitable Building, which will cost $570,000. Sperry, York & Sawyer, Archs.

Delano & Aldrich, Archs., New York, have been commissioned by Henry Walters, it is reported, to make plans for a large art gallery building, to be erected at Charles and Centre Sts. Three stories, about 200 × 150 ft., stone and brick, steel frame construction, fireproof, steam heat, elevators, skylights, stained and plate glass, etc. Cost, $400,000.

Contract for hay shed, Mount Clare, for Baltimore & Ohio Ry. Co. has ben let to Jas. Stewart & Co., 315 North Charles St. Steel construction on stone base, 80 × 337 ft. Cost, $50,000.

Market house on Water St., Market Pl. and Baltimore St., will soon be rebuilt, it is reported. Brick, stone and steel, two stories. Cost, $125,000.

SPRINGFIELD, MD.—Bids are to be received on Sept. 5 by the Springfield State Asylum for convalescents' home, after plans and specifications by Owens & Sisco, Archs., 14 West Lexington St., Baltimore. Three stories with basement, 81.2 × 91 ft., brick with granite, limestone and terra cotta trimmings; steel beams and girders, cast-iron columns, slate roofing, cast-iron lintels, galvanized-iron skylights, concrete partitions, electric wiring and fixtures, sanitary plumbing, steam heating system. Heating, plumbing, drainage and electric wiring not included in contract, it is reported.

NORFOLK, VA.—Parker & Thomas, Archs., 612 Calvert St., Baltimore, Md., have invited bids for a bank and office building for the Commercial Realty Co. Brick, stone and steel, fireproof, 12 stories. Cost, $300,000.

POINT PLEASANT, W. VA.—Mutual Realty Co., J. S. Spencer, Pres., will erect store and office building here. Cost, $40,000. J. B. Stewart, Huntington, W. Va., is Arch.

CHARLESTON, S. C.—It is reported that bids may be received this month for installation of steam heating plant for $5,000 library building. Sames & Carter are Archs.

FLORENCE, S. C.—Following are the bids received by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., on Aug. 22 for the construction of post office here, not including heating apparatus: King Lumber Co., Charlottsville, Va., $84,780; Miles & Bradt, Atlanta, Ga., $91,135; Brown & Son, Augusta, Ga., $91,570, and Geo. A. Moore & Son, Nashville, Tenn., $94,400.

SYLVESTER, GA.—Bids are asked until Sept. 5 by J. W. Golucke & Co., Atlanta, Ga., for building Worth County court house and jail.

SAVANNAH, GA.—H. W. Witcover, 5 Bull St., has completed plans for the National Bank of Savannah building, and bids for erecting same will be asked soon. Plans have been prepared for both a 5-story and a 10-story structure, and it is stated that bids will be asked on both plans.

MOBILE, ALA.—Plans are being prepared for a 6-story addition to the Bienville Hotel. Cost, about $60,000.

MONTGOMERY, ALA.—Bids are asked by Montgomery Hotel Co., 113 Montgomery St., until Sept. 15 for the construction of a modern fireproof hotel of about 175 rooms, and a 3-story annex for kitchen, servants' quarters, etc. W. F. Denny, Arch., Prudential Building, Atlanta, Ga. C. A. Lanier, Secy. Hotel Co.

NEW ORLEANS, LA.—Bids are asked at the Bureau of Yards and Docks, Navy Dept., Washington, until Sept. 24 for constructing three frame dwellings at the Naval Station. Mordecai T. Endicott, Ch. of Bureau. Specifications for this work are on file at office of Engineering News, New York.

OPELOUSAS, LA.—Bids are asked by A. J. Muller and E. B. Dubuisson, Comrs., until Sept. 5 for construction of a jail, with capacity for 50 prisoners and to cost not more than $35,000, for parish of St. Landry.

LEXINGTON, MISS.—Bids are asked by R. C. McBee, Mayor, until Sept. 13 for erection of a school building. R. H. Hunt, Arch., Chattanooga, Tenn.

JOHNSON CITY, TENN.—Bids are asked by the National Home for Disabled Volunteer Soldiers, 346 Broadway, New York, until Sept. 30 for furnishing material and constructing a Memorial Hall at the Mountain Branch, N. H. D. V. S. Moses Harris, Gen. Treas. J. H. Freedlander, Arch., 244 Fifth Ave., New York. (Advertised, Engineering News.)

NASHVILLE, TENN.—Bids are asked by James Knox Taylor, Supervising Arch., Treas. Dept., Washington, D. C., until Sept. 21 for the installation of a conduit and electric wiring system for the U. S. Custom House and Post Office. (Advertised, Engineering News.)

KNOXVILLE, TENN.—W. J. Oliver will erect a 7-story fireproof cold-storage plant in the western part of city. Cost, about $200,000.

LOUISVILLE, KY.—Permit has been granted to John B. Hutchins, Arch., to build warehouse for the Continental Tobacco Co., at 31st and Walnut Sts. Estimated cost, $75,000.

Capt. Brinton B. Davis has been selected by the Fiscal Court as architect for armory that the county will build next year on Walnut St., between Center and Sixth Sts. Building will be about 200 × 300 ft. It may cost $200,000.

CINCINNATI, O.—Board of Education will soon pass an ordinance for the issuance of $155,000 of 4% school bonds, it is reported.

Bids are asked until Sept. 20 by the Board Public Library Trustees for erecting a Carnegie branch library on Kemper Lane and Locust St., including excavation and limestone masonry, brick and dressed stone work, galvanized iron, tin and roofing, plumbing, gas fitting, electric wiring, cement work, heating, etc. Jas. W. McLaughlin, Arch., 408-410 Johnston Bldg. Wm. A. Hopkins, Clk.

Oliver E. Conner, a real estate broker, is said to be promoting a plan to erect a 10-story concrete power building at a cost of $250,000.

EAST CLEVELAND, O.—Searles & Hirsch, Archs., 308 Electric Building, Cleveland, are revising plans for a 3-story brick school to be erected on Euclid Ave. and Prospect St. for Board of Education. Cost, $65,000.

CLEVELAND, O.—Contract has been awarded by F. L. Packard, Arch., Columbus, for the erection of Infirmary building at Cleveland State Hospital to R. H. Evans & Co., of Zanesville, O., at $53,989. Two stories, brick and stone.

COLUMBUS, O.—Plans have been adopted for new chemical building to be erected at Ohio State University. It will cost $100,000. Paul Jones is Pres. Bd. Trustees.

BELLAIRE, O.—Bids are asked by J. H. Milligan, Chn. Building Com. Second Presbyterian congregation, until Sept. 5 for erecting a church at Noble and 43d Sts. Geo. D. Giffin & Co., Archs., Fairmont, W. Va.

MONTEREY, IND.—Bids are asked by Martin Keller, Trustee Tippecanoe township, until Sept. 8 (change of date), for constructing a 2-story, 3-room brick schoolhouse on West Main St., Monterey.

MUNCIE, IND.—Jenney & Mundie, Archs., New York Life Ins. bldg., Chicago, have let general contract for a hotel building to be erected here for Harold P. March, Muncie, to Fred. Illingworth, same city, five stories, 120 × 120 ft., brick and stone. Cost, $125,000.

DETROIT, MICH.—Donaldson & Meier, 623 Moffat Bldg., Archs., have prepared plans for remodeling City Hall. Iron and steel work, electric elevators, plate glass, steam heat, mosaic marble tile floors, stairs, electric light, etc. Cost, $150,000. Bids will be received by the Department Public Works this month. Wm. H. Maybury, Comr.

KALAMAZOO, MICH.—E. J. Manning has been awarded contract to construct buildings at the Nazareth Academy, east of this city. The contracts for the heating, plumbing, lighting and cement work are still to be awarded, it is reported. Total cost, about $100,000.

ELGIN, ILL.—D. E. Postle, 204 Dearborn St., Chicago, is preparing plans for a high school to be erected in this city. Cost $120,000.

BLOOMINGTON, ILL.—John W. Evans Sons Co. was awarded contract for new Irving school, at $43,598.

CHICAGO, ILL.—Sidney Lovell, Arch., 355 Dearborn St., has let the masonry contract for the erection of a 3-story apartment building, 100 × 132 ft., 43d St. and Ellis Ave. Pressed brick and stone fronts, steam heat, hard wood finish and combination light fixtures. Cost, $60,000.

J. E. O. Phidmore has prepared plans for a building to contain stores, an assembly hall with stage, several clubrooms, studios on the top floor and bowling alleys in the basement, which is to be built in Irving Park for R. T. Race. Three stories, 119 × 80 ft., vitrified brick. Cost, $85,000.

The Wahl-Henius Institute of Fermentology has secured a site at Fullerton and Clifton Aves. upon which will be erected a new academy, together with complete experimental brewery, after plans by Bernard Barthel. Academy building will be three stories, 96 × 66 ft.; the brewery will be absolutely fireproof. Cost is estimated at $50,000.

Bids are asked by Board of Education, 730 Tribune bldg., until Sept. 14, for the following school work: New school building, at 71st and Loomis Sts.—Masonry, cut stone, sheet metal and tile roofing, composition roofing, structural iron, iron stairs, wire guards, carpentry, hardware, painting and finishing, glass and glazing, fireproofing, lathing and plastering, concrete floors, asphalt floors, etc., tile floors, telephones and bells, window shades, steam heating, heat regulation, ventilation, plumbing and gasfitting, sewerage, electrical work. R. B. Williamson, Act.-Archt.; T. J. Waters, Ch. Engr., 714 Tribune bldg.

Bids are asked by Board of Education until Sept 2 for the following school work: Austin High School, Walnut and Frink Sts.—Masonry, sheet metal and slate roofing, composition roofing, structural iron, iron stairs, window guards, carpentry, hardware, painting and finishing, glass and glazing, fireproofing, lathing and plastering, concrete floors, asphalt floors, etc., tile floors, shades, steam heating, heat regulation, ventilation, plumbing and gasfitting, sewerage, electrical work. R. B. Williamson, Act.-Archt.; T. J. Waters, Ch. Engr.

Local papers state that William H. Barry, 84 Van Buren St., has purchased a subdivision of 100 lots, with a total frontage of 5,000 ft., on both sides of Clifton Ave. and on Pemberton St., from Montrose Ave. to Lawrence Ave. Mr. Barry will erect 104 3-story apartment buildings, 40 × 70 ft. to 50 × 70 ft. Total cost, $1,500,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

He is ready for bids on three buildings each 50 × 65 ft., with pressed brick and stone fronts, composition roofs, oak finish, steam heat, marble and tile work, mantels, combination light fixtures, to cost $50,000. During the next three years Mr. Barry will build 60 flat buildings. Mr. Barry was a member of the firm of Barry Bros., that built more than 500 houses on the South Side, including the Del Prado Hotel.

D. H. Burnham & Co., Railway Exchange Bldg., are reported to be receiving bids on field-house, for Park No. 6, bounded by 83d St., Bond Ave., 83d Pl. and Houston Ave. Separate bids will be received on the following lines: Concrete, carpentry, plumbing, heating, electric wiring, sheet metal, plastering, glass, iron work, hardware, painting, slate work and lighting fixtures. Bids are also invited for a lump sum for the entire construction of the building. Cost, $75,000.

The White City Construction Co. has been incorporated at Springfield, Ill., with a capital stock of $1,000,000. Work will begin about Oct. 1 on an amusement park covering 13 acres of land at 63d St. and South Park Ave. that was recently purchased. Joseph Beifeld, Propr. of the Sherman House, is Pres.; Aaron J. Jones, Secy. and Treas. and Paul D. Howse, Gen. Mgr. Offices will be located in the Schiller building, suite 1010. Edward C. Boyce, of New York City, who designed the "Dreamland" at Coney Island, is preparing sketches for the Chicago park. There will be 16 large fireproof buildings, with steel frames and exterior of white staff, including a large ballroom and a large cafe. An electric light plant also will be installed, and, in the fall of 1905, a heating plant will be added. Lighting capacity will approximate 1,000,000 c. p. All walks will be of cement. Project involves an expenditure of $1,000,000. Mr. Howse may be addressed.

Wm. J. Brinkmann, Metropolitan Block, is reported to have prepared preliminary plans for a Catholic institution to be erected at a cost of about $325,000. He is also preparing plans for a Catholic school building to be erected in southern Illinois, to cost $25,000. For Rev. Father Dorney he is designing a 4-story school, 75 × 115 ft., to be erected at Wallace and 45th Sts. Cost, $60,000.

D. H. Burnham & Co., Archs., are preparing plans for a 14-story, fireproof office building, to be erected at 175-177 Jackson Boulevard for David Mayer. Cost, $400,000.

MILWAUKEE, WIS.—All plans submitted for the new $130,000 North Side high school were rejected. New plans were to have been submitted by Aug. 29.

Henry J. Rotter, Arch., Goldsmith bldg., will prepare plans for an apartment house to be erected at 13th St. and Grand Ave. for Patrick Cudahy. Stone and brick, four stories, 90 x 120 ft. Cost, about $90,000.

WAUSAU, WIS.—Bids for the construction of the federal building were received. Charles Skooglun, St. Paul, was the lowest bidder, at $44,673. Bids may be readvertised.

PEKIN, ILL.—Bids are asked by James Knox Taylor, Supervis. Arch., Treas. Dept., Washington, D. C., until Oct. 5 for the construction of the U. S. Post Office, except heating apparatus. (Advertised, Engineering News.)

DES MOINES, IA.—State Executive Council has awarded contract for construction of central portion and east wing of the State Historical Building to Schleuter & Co., of Chicago, at $167,086.

CEDAR RAPIDS, IA.—It is reported that A. H. Connor, Masonic Temple, has secured the contract to erect the Allison Hotel, at $106,000.

DAVENPORT, IA.—School Board has awarded to H. B. Walters, Danville, Ill., the contract for the construction of new high school building, at $191,270.

DULUTH, MINN.—Bids were received for erecting the Eastern Ave. school; (a) limestone trimmings, (b) granite trimmings. Israel Picard was lowest bidder on (a) and (b), at $42,500.

DULUTH, MINN.—Charles A. Bronson, Clk. Board of Education, will receive bids until Oct. 7 for $100,000 of bonds of Independent School District.

MINNEAPOLIS, MINN.—Pike & Cook are reported to have secured general contract to erect the Minneapolis, St. Paul & Sault Ste. Marie Ry. Co.'s general office building on Second Ave. South, between Third and Fourth Sts. Contract does not include the heating, plumbing, electric wiring, fixtures and gas. William M. Kenyon, Arch. Cost, complete, $150,000.

HUTCHINSON, KAN.—Geo. E. Hooper, Arkansas City, has been officially awarded contract for post office building, at $44,800.

MARYVILLE, MO.—Bids are asked by A. A. Searcy, Arch., or J. G. Grems, Pres. Library Board, until Sept. 13 for erecting Carnegie library building, except heating and plumbing.

ST. LOUIS, MO.—State Commission has awarded contract for erecting Missouri School for the Blind to Fruin & Colon. City, at $100,000. Work will begin at once.

Kinlock Telephone Co. will erect 12-story building, 112 × 102 ft. Cost, $500,000.

LITTLE ROCK, ARK.—Bids are asked until Sept. 10 for erecting a 6-story brick hotel. Cost, about $250,000. Geo. R. Mann, Arch., Reider Bldg.

Bids are asked until Sept. 15 by School Board for erecting high school; bids on ventilating, heating, plumbing and fireproofing to be submitted separately. L. W. Cherry, Chn. Com. on New Buildings. Cost, $100,000.

EL PASO, TEX.—B. P. O. Elgs are reported to have approved plans prepared by Edward Kneezel for a new lodge building to cost $65,000.

SOUTH McALESTER, IND. T.—Contract has been let to E. P. Williamson, of Krebs, for erection of Busby Hotel. Plans and specifications by McKibben & McKibben, Archs.; 140 × 150 ft., four stories high. Cost, about $100,000.

MESCALERO, N. MEX.—Bids are asked by Commissioner Indian Affairs, Washington, D. C., until Sept 27 for construction of buildings, water and heating systems, with electric lighting, etc., at the Mescalero school.

ARDMORE, IND. T.—Bids are asked until Sept. 6 for erection and completion of a brick or stone Carnegie library building. J. B. White, Arch., Ardmore. R. Hardy, Chn. Building Com.

LAWTON, OKLA.—Bids are asked by the Engineer U. S. Geological Survey until Oct. 10 for the erection of nine public buildings in Oklahoma Territory. Thos. Ryan, Act. Secy. (Advertised, Engineering News.)

GRAND, OKLA.—Bids are asked until Sept. 5 for erection of court house. H. D. Brown, Act. Chn. Bd. County Comrs.

VANCOUVER, B. C.—Plans and specifications for new federal building to be erected at Hastings and Granville Sts. are nearly completed. Tenders for construction will be called for shortly. Large electric clock will be mounted in the tower. Building and site will cost about $350,000.

SAN JOSE, CAL.—Bids are asked by T. S. Montgomery, Secy. Board of Managers, Agnews State Hospital, 7 West Santa Clara St., until Sept. 13 for construction and installation of a complete system of drainage, water supply, plumbing and Gegenstrom showers, including steam connections for same, and setting of finished material, throughout the wards, tiers and pantries of the hospital.

MOOSE JAW, ASSA., N. W. T.—D. A. Dinnie & Co., Minot, N. Dak., were awarded contract for City Hall and power house, at $80,000.

WATER SUPPLY AND IRRIGATION.

CLAREMONT, N. H.—Laying of 8-in. main from Myrtle St. to lots north of Fair View is under consideration. James L. Rice is Supt. W.-W.

ATTLEBORO, MASS.—Following bids were received Aug. 10 by Water Commissioners for constructing concrete steel stand-pipe: Babbitt, Barr & Davis, $33,679; Aberthaw Construction Co., $34,365; Eglee-Bunting Co., $35,000; Tucker & Vinton, $40,000; Neff Co $75,000. The contract was awarded Aug. 25 to the Aberthaw Construction Co.

NEW HAVEN, CONN.—New Haven Water Co. has let a contract to Builders Iron Foundry, Providence, R. I., for 10,000,000-gallon pump for its pumping station at Lake Saltonstall.

FORESTPORT, N. Y.—Bids are asked by Village Trustees until Sept. 5 for construction of gravity water system, requiring about 9,400 ft. 6-in. vitrified pipe and 167 tons 3-in. to 8-in. cast iron pipe, specials, hydrants, etc. W. G. Stone & Sons, Engrs., Utica, N. Y.; Albert Harrig, Pres. Village Trus.

ATLANTIC CITY, N. J.—Ordinance has been before Council appropriating $21,000 for laying new water main in Atlantic Ave. to Jackson Ave.

CAMDEN, N. J.—Contract for furnishing about 23,000 ft. 30-in. pipe and special castings for new pipe line from Morris Station to Pavonia has been let to R. D. Wood & Co.

PHOENIXVILLE, PA.—Improvements costing $6,000 are to be made to local water-works according to reports.

SAYRE, PA.—Lehigh Valley R. R. Co. is stated to have had surveys made preliminary to establishing water plant here. Supply would be pumped from Susquehanna River to reservoir. E. H. Shipman, Sayre, Pa., is Asst. Engr.

UNIONTOWN, PA.—Uniontown Water Co. will erect 125,000,000 gallon storage reservoir at Hutchinson.

CARROLLTON, GA.—Water and Light Commission has been appointed, of which Judge W. F. Brown is member. $45,000 bond issue was recently voted for municipal water-works, sewerage and electric lights.

COLUMBUS, GA.—W. S. Greene, Receiver of Columbus Water Works Co., has been directed to install an intake in the Bibb mill pond north of Columbus. This necessitates laying a line of 12-in. pipe for 7,800 ft., at a cost of $10,000.

MIAMI, FLA.—See under Sewerage.

BRIGHTON, ALA.—Brighton Water-Works Co., capitalized at $10,000, is said to be making arrangements to install water-works. L. N. Buel is Mayor.

NEW ORLEANS, LA.—Bids are asked by the Sewerage and Water Board, 602 Carondelet St., until Nov. 9 for furnishing and erecting four 20,000,000-gallon pumping engines, working against 218-ft. head; three 40,000,000-gallon centrifugal pumps, working against 25-ft head; three engines to operate these centrifugal pumps, two 150-KW. 550-volt D. C. generators, two engines to drive these generators, six 400-HP. water-tube boilers and steam and water pipe connections, and other appurtenances. F. S. Shields, Secy.; Geo. G. Earl, Gen Supt. (Advertised, Engineering News.)

CHATTANOOGA, TENN.—Wilder Spring Water Co. will, it is stated, install works if sufficient patronage is secured in Sherman Heights and East Chattanooga. Company was organized in 1903 with $10,000 capital, and has obtained lease of Wilder Spring. N. H. Brown and O. L. Lockwood were incorporators.

McKENZIE, TENN.—McKenzie Water Co. has been chartered with $4,000 capital. W. F. Scales and R. B. Moore are interested.

KNOXVILLE, TENN.—We are informed that plans and specifications for the new system of water-works for this city will be completed Sept. 25. Owen Ford, 710 Security Bldg., St. Louis, Mo., is Des. Engr.

CANAL DOVER, O.—Bids are asked by Board of Public Service until Sept. 21 for duplex compound condensing pumping engine of 2,000,000 gallons daily capacity. Cost is not to exceed $6,000. Herman F. Eppens, Clk.

CLEVELAND, O.—According to report of City Engineer to Board Public Service, installation of high pressure service for fire protection in downtown district would cost $300,000; $20,000 of this would be for additional pumping station at Kirtland St., and $89,000 would be for engines. The report calls for 43,450 ft. of pipe and 179 new hydrants. It is probable that the work will not be done at this time.

CLEVELAND, O.—Village of Cleveland Heights has voted to issue $50,000 of bonds on installing water-works.

CINCINNATI, O.—The village of Cheviot has asked the water-works commissioners to extend a main on Harrison Ave., to connect with piping in the town.

COLUMBUS, O.—Contract for laying cast-iron pipe across Scioto River has been let to Westwater & Casey, Columbus, O., for $116,279.

DAYTON, O.—Following bids were received by Board Public Service Aug. 17 for constructing 24 concrete fire cisterns: Dayton Asphalt Roofing & Paving Co., $15,917; Paul & Kirchner, $14,965; William Rehling, $17,062; William Kernan, $14,878; F. Eid Concrete Steel Co., $36,351; George R. Hively, $18,800.

COVINGTON, O.—We are informed that C. O. Lucas, Greenville, O., is making plans and specifications for water-works for this place, to cost $30,000. A bond issue of $27,000 is to be sold Sept. 6, and bids for constructing works will be advertised soon after. Letting of contracts will take place about Sept. 27. Water-works will require two pumps, 750,000 gallons each; a 50,000-gallon tower, 450 tons pipe, eight tons specials, 50 hydrants, two 80-HP. boilers, etc. Alternative bids will be taken on power pumps and two 40-HP. gasoline engines.

HARRISON, O.—James A. Graft is stated to have sold his water-works and electric light plant to a corporation organized by the A. L. Rich Co., First National Bank Bldg., Cincinnati, O. C. J. Fleming will be Mgr. It is said that electric power plant will be added as soon as business warrants it.

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PORTSMOUTH, O.—Norfolk & Western Ry. is stated to have let contract for new pump well and intake for its East Portsmouth Terminals to Rosser & Castle, Bellaire, O., for $5,300.

NEW LONDON, O.—Riggs & Sherman, Consult. Engrs., Toledo, O., are to prepare plans for water-works for this place, and matter will be voted on at November election.

ROCKPORT STATION, O.—Bids are asked by Village Clerk until Sept. 10 for furnishing water pipe, special castings and miscellaneous castings, hydrants, valves and water cranes, labor and material for laying the above and valves. Plans and specifications may be seen at office of the Village Clerk and at the office of the Walter P. Rice Engineering Co., 729 Society for Savings Bldg., Cleveland, O. Address bids care of W. L. Mich[illegible], Village Clk., West Park, O.

YOUNGSTOWN, O.—G. T. Prosser, Clk. Bd. Pub. Wks., writes us that contracts have been let, as follows, for furnishing pipe, valves, etc., for city; bids were opened Aug. 18: 400 ft. 36-in. iron pipe, Massillon Iron & Steel Co., Massillon, O.; five 24-in. gate valves and one [illegible]-in. gate valve, C. W. Thomas, Detroit, Mich.; two [illegible]-HP. and two 125-HP. boilers, Sterling Boiler Co., Chicago, Ill., for $10,008; two centrifugal pumping engines, one centrifugal wash pump and one air pump, Wm. Tod Co., Youngstown, O., for $9,400.

ADRIAN, MICH.—City is considering purchase of local water-works and Riggs & Sherman, Consult. Engrs., Toledo, O., are making a detailed valuation of the entire plant.

CHICAGO, ILL.—Bids are asked until 11 a. m., Sept. 2, for furnishing and delivering 884 pieces of 24-in. cast-iron water pipe. F. W. Blocki, Comr. Pub. Wks., Room 222, City Hall.

QUINCY, ILL.—In order that the city may take over the water-works of L. and C. H. Bull a water-works company has been incorporated with $100,000 capital. Works are to be taken over for $650,000 and are to be held in trust for the city until such a time as the city shall have sufficient money in the sinking fund to take the plant off their hands.

SYCAMORE, ILL.—Bids are asked by J. D. Beckles, Cy. Clk., until Sept. 12 for taking down and removing present city water stand-pipe, located at State and Main Sts.

CHETEK, WIS.—City will receive bids until Sept. 9 for complete water-works system, consisting of steel tower and tank, pipe line, brick building and pumping machinery. Oscar Clausen, St. Paul, Minn., is Consult. Engr.

POYNETTE, WIS.—Village votes to issue $10,000 of bonds for water-works.

DE PERE, WIS.—City has voted to purchase present water-works for $27,300 and to expend $45,000 for pumping works.

ATHENS, WIS.—Committee to secure estimate as to cost of installing water-works

NEW CASTLE, NEB.—Town votes to issue $6,500 of bonds for water-works.

FORSYTH, MONT.—Water and light franchise has been granted J. E. Edwards.

MARSHALL, MO.—This city will build new pumping station at new source of supply, which will be from deep wells. It will also construct masonry reservoirs and lay mains to connect present distributing system. The city mains will be extended and fire hydrants added. Plans and specifications will be ready about Sept. 10, and bids will be received about Sept. 24. Owen Ford, Consult. and Supervising Engr., 710 Security Bldg., St. Louis, Mo., has the work in charge. J. R. Phillips is Mayor; A. R. James, Cy. Clk.

MORRILLTON, ARK.—C. M. Campbell, Fort Smith, Ark., will, it is stated, submit proposition to Council for installing works.

WHARTON, TEX.—Contract for erecting 50,000-gallon, four-post steel tower has been let to Virginia Bridge & Iron Co. for $3,425. T. L. Smith, Jr., Eagle Lake, Tex., was Des. Engr.

IDAHO SPRINGS, COLO.—Chas. Brandstetter, Cy. Clk., is taking bids until Sept. 8 for purchase of $75,000 of bonds for extending water-works system.

PORTALES, N. MEX.—We are informed that proposition to vote $6,600 bond issue by Roswell County for sinking artesian wells failed to carry at Aug. 2 election. W. E. Lindsey is County Clk.

SEATTLE, WASH.—Contract for constructing Roy St. water main was let to P. McHugh for $18,222.

Ordinances have passed the Council ordering construction of Colorado St. water main at est. cost of $9,200; also construction of fire hydrant system in 15th Ave., at est. cost of $1,200. R. H. Thomson is Cy. Engr.

WENATCHEE, WASH.—Bids are asked until Sept. 13 for construction of reservoir and for supplying 12,500 ft. more or less of 8-in. spiral wound wood for steel pipes, capable of sustaining a 50-ft. head pressure. R. F. Holm, Cy. Clk.

COLFAX, WASH.—Council is stated to have about given up hope of discovering an artesian well and is now discussing securing supply from springs near Elberton, 13 miles north of Colfax. It is asserted that a 7½-in. pipe could be placed with a fall of 135 ft., and it is further asserted that the spring would supply ample water for a population of 3,600. The cost of placing this pipe was estimated in 1903 at $40,000. Howard Bramwell is Cy. Clk.

PORT TOWNSEND, WASH.—Bids are asked by Geo. H. Penrose, Q. M., U. S. A., until Sept. 12 for constructing seven wood water tanks at Fort Flagler, Wash.

PORT TOWNSEND, WASH.—Contract for construction of Olympic gravity water system, bids for which were opened Aug. 16, is stated to have been let to Jacobsen-Bade Co., Portland, Ore., for $244,000. Supply is to be brought to city from mountains 18 miles distant.

HILLYARD, WASH.—E. E. Brandt, Spokane, Wash., has purchased interest of W. Bentley in local water system, and will, it is stated, enlarge it.

ASTORIA, ORE.—Bids are asked at office of Constructing Quartermaster, Astoria, Ore., until Sept. 24, for construction of frame pump house, removing and resetting old boiler, smokestack and machinery, furnishing and setting two new boilers and smokestack and make connections with wells; also change in water distributing system and setting and connecting of four generating sets for electric light at Fort Stevens, Ore. Capt. Goodale, Quartermaster, Astoria, Ore.

PRINEVILLE, ORE.—Local reports state that the Squaw Creek Irrigation Co. will irrigate 20,000 acres of land between Squaw Creek and the Deschutes River. Work on the canal lines will begin as soon as the approval of the state land board is obtained. Will Wurzweiler, A. Thomson and J. W. Howard are interested.

WOODSTOCK, ORE.—D. B. Fleck, Woodstock, has purchased water-works here formerly owned by Portland Trust Co. Works were valued at about $10,000.

ALAMEDA, CAL.—City Trustees are discussing the erection of a pumping plant.

ANAHEIM, CAL.—Property owners in southeastern parts of city have asked extension of water mains to those sections.

BISHOP, CAL.—Special election is to be held Sept. 6 to vote on $20,000 bond issue for constructing waterworks, $2,500 bond issue for drainage system, and $12,500 bond issue for sewerage. W. W. Yandell is Cy. Clk.

PINOLE, CAL.—Franchise has been granted Hercules Water Co. for water system here.

SAN JOSE, CAL.—Orchard Irrigating Co. has been incorporated with capital of $100,000 to build and operate irrigating ditches in this valley.

SANTA ANA, CAL.—We are informed that projected extension of water system in northwestern part of city is only in contemplation as yet. Ransom Reid is Supt. W.-W.

SANTA ROSA, CAL.—Issue of bonds for $222,500 is under discussion to be used for following purposes: Waterworks, $60,000; water meters, $15,000; improving sewer system, $100,000; bridges and bulkheads, $20,000; fire engine, $5,500; improving fire buildings, $2,000; city park, $20,000.

VALLEJO, CAL.—Referring to proposed water-works extension L. Kaarsburg, Cy. Engr., writes us that the old pipe system is inadequate and giving out, having been installed about 12 years ago. Two years ago the old 8-in. pipe line from Vallejo to Creston was renewed with a 14-in. cast-iron pipe. It is now proposed to renew the remainder from Creston to Green Valley with a 14-in. cast-iron pipe, 63-100-in. thickness, over a new route 7.9 miles long. Only a few air valves and blow offs will be needed, as old ones will answer. The preliminary survey for this extension has just been completed and the map of proposed new route submitted to the Board of Public Works and City Trustees. The city is at present procuring rights of way through the different properties. Bids will probably be opened the early part of 1905. The city will be bonded for the greater portion of the estimated cost of proposed work.

VENTURA, CAL.—City has secured water supply from well and it is stated that when sufficient amount is assured an election will be called to vote bonds for municipal water and lighting plants.

JULIAETTA, IDAHO.—The mayor writes us that proposed new municipal water-works are to cost $5,000. Date for submitting bids will be determined after bonds are sold. Supply is to be from springs, 1½ miles from city. It is intended to use wooden pipe. A reservoir will be constructed and eight hydrants set.

CRANBROOK, B. C.—Company has ben incorporated here to supply town with a water system. The water will be brought through a 7½ mile flume.

NEW DENVER, B. C.—Company is being formed here to build water-works for the town.

VANCOUVER, B. C.—City is to vote on by-law to borrow $100,000 for making extensions to water system.

SEWERAGE.

PORTLAND, ME.—Bids are asked by Capt. A. W. Yates, Q. M., Portland, until Sept. 7 for constructing drains, etc., at Ft. McKinley.

SALEM, MASS.—Sewerage Commission has voted to lay syphon under North River at North bridge. Work will be done under the direction of David N. Cook, Supt. Sts. Expense will be charged to the appropriation of $50,000 for sewage disposal system.

WESTFIELD, MASS.—We are informed that Seymour-Clark-Hills Co. was awarded contract for sections 8 and 9 of storm water sewer system here, at $15,671. Oren E. Parks, Town Engr.

NAUGATUCK, CONN.—Contract for Spring St. storm sewer was awarded to Edward Tracy, Derby, Conn., at $1,516.

WATERBURY, CONN.—Board of Public Works has awarded contract for the sewer and storm water way on Bank St., between the Naugatuck River and Meadow St., to F. T. Ley & Co., Springfield, Mass., at $14,728.

BROOKLYN, N. Y.—Bids are asked until Sept. 8 by Department of Parks, for furnishing and delivering standard quality vitrified sewer pipe at Sunset Park. John J. Pallas, Pres.

Bids are asked until Sept. 7 for constructing sewers in East 29th and Troutman Sts. Martin W. Littleton, Boro. Pres.

OLEAN, N. Y.—Bids are asked until Sept. 6 for the construction of a sewer, 560 ft. long, in South Sixth St. E. E. Allen is Supt. of Sts.

NEW BRIGHTON, N. Y.—We are informed that bids were received for completing an abandoned contract for constructing a sewer in First and Second Wards. Joseph Johnson's Sons were lowest bidders, at $4,112. Louis L. Tribus is Act. Pres., Boro. Richmond.

NEW BRUNSWICK, N. J.—Bids are asked until Sept. 8 for laying and constructing a pipe sewer in Second Sewer Dist. Freeman Woodbridge, Chn. Sewer Com.

TRENTON, N. J.—Bids are asked until Sept. 6 by the Common Council for constructing sewers in portions of several streets; also for constructing a drain in a portion of Bond St. Harry B. Salter, Cy. Clk.

WEST NEW YORK (Postoffice, Weehawken), N. J.—James Finneran, 430 Seventh St., was awarded contract for a sewer in Palisade Ave., at $2,524. Francis F. Tonn, Town Clk.

MOUNT CARMEL, PA.—Bids were received on Aug 20 as advertised for in Engineering News for construction of cement, brick and terra cotta pipe sewers, from 11 ft. in diameter to 8-in., with manholes and storm water inlets. T. Chalkley Hatton, Consult. Engr., Wilmington, Del. John F. Gibbons, Chn. Sewer Com. De Nallo & Klinberg were lowest bidders, we are informed, at $22,213.

PHILADELPHIA, PA.—Bids are asked until Sept. 7 by Peter E. Costello, Dir. Dept. Pub. Wks., for main and branch sewers, constructing and reconstructing inlets, manholes, laterals, spurs, well-holes, etc., in entire city; also bridges. It is reported that bids will be received Sept. 1 by Dept. Pub. Wks. for purchase of $700,000 sewer bonds.

KANE, PA.—Bids are asked by Borough for the construction of sewer in Park Ave. from Beech St. to Walnut St.; about 1,539 ft. T. T. Keelor, Chn. of Sewer Com.; R. J. Campbell is Secy.

MEADVILLE, PA.—Contract to furnish centrifugal pump and 20-HP. Westinghouse motors to equip the sewage pump station has been awarded to H. R. Worthington, New York.

LANCASTER, PA.—A bill in equity has been filed against the city by R. A. Malone, asking court to perpetually restrain further work on a portion of the improvement of city's sewer system for which an expense of $130,000 was to be incurred. Contract was recently awarded to Jordan, Stone & Co., of Philadelphia.

LOCK NO. 4, PA.—Bids are asked by Council until Sept. 5 for constructing brick and terra cotta pipe sewers: 7,470 ft. to 20-in. T. C. pipe sewer; 830 ft. 30 to 30 × 40-in. brick sewer, 18 manholes, 3 flush tanks, 7 lamp holes and 24 inlets. Wm. Sharpnock is Clk.

SCRANTON, PA.—Green Ridge St. sewer system will be built. $18,000 of bonds are being advertised for this work.

WILLIAMSPORT, PA.—Bids are asked until 2 p. m., Sept. 1, for storm sewers. J. J. Galbraith, Cy. Clk.; James F. Fisher, Cy. Engr.

SUMMERVILLE, GA.—Addition will be made to sewer system. Nesbit Wingfield, Engr., of Augusta, will prepare plans, etc. Address T. I. Hickman, Intendant.

SOUTH BROOKLYN, O.—Bids are asked until Sept. 12 for laying sewer mains in portions of several strets. Wm. H. Evers Engineering Co., Engrs., 237 The Arcade Bldg., Cleveland; W. T. Pupikofer, Village Clk.

LORAIN, O.—Bids are asked until Sept. 16 by the Board Public Service for constructing sewers and appurtenances in portions of several streets. J. J. Mahony, Clk.

ALLIANCE, O.—O. W. Pfouts, Cy. Engr., has prepared plans and estimates for several storm water sewers, at a total estimated cost of $25,700.

YOUNGSTOWN, O.—Bids are asked until Sept. 2 by Board Public Service for constructing sewers in portions of several streets. G. T. Prosser, Clk.

MARION, O.—Bids are asked until Sept. 7 for constructing various sewers here. Wm. Fies, Clk., Bd. Pub. Service.

DAYTON, O.—F. M. Toriner, Cy. Engr., has submitted report to Council in which estimated cost of storm water sewers in Howard and Fifth Sts. is placed at $5,000. Estimated that cost of sewers in Oak St. will be $3,900. Council has passed an order providing for an issue of $20,000 bonds for storm-water sewers.

Board Public Service has awarded contracts for storm-water sewer extensions to William Hilt, as follows: St. Paul Ave., at $5,165 and $4,255; Ford St., $1,132; Alberta St., $2,879, and $3,652.

SOUTH BEND, IND.—W. H. Harris was awarded contract for a brick and pipe sewer on College St., at $4,287. Foulkes & Forbes awarded contract for sewer on Oak St., at $4,584.

TERRE HAUTE, IND.—Bids are asked until Sept. 2 for building a pipe sewer on 13th St. Ralph Sparks is Cy. Engr.

RICHMOND, IND.—Bids are asked until Sept. 5 for construction of sewers. John F. Taggart is Cy. Clk.

LANSING, MICH.—Fitzpatrick & Perry, City, were lowest bidders for contract for sewers in William, Sycamore and Isaac Sts., at $7,350; W. H. McKale, City, was lowest bidder on contract for sewers in Isaac Townsend, Ann and South Sts., at $5,200. Work includes 2,420 ft. brick and 1,950 ft. 18 and 20-in. pipe sewers from 24 × 36-in. to 30 × 45-in. in diameter, nine manholes and 18 catch-basins. The trench is to be from 6 to 16 ft. in depth. H. A. Collar is Cy. Engr.

HOLLAND, MICH.—Council has awarded contracts for the construction of sewers as follows: To John J. Rens and John Vaness, Grand Rapids, sewer in 15th St., between Central Ave. and Maple St., at $2,164; Riemers & Zuwerink, sewer in 15th St., between Central and Columbia Aves., at $1,505.

ASHTON, ILL.—We are informed that bids are wanted until Sept. 15 for the construction of the Hart Lateral, a new ditch for the Inlet Swamp Drainage District. It is about 2 miles long and 7 ft. deep. Plans and specifications may be sen at the office of A. M. Shaw, Countryman Bldg., Dixon.

OTTAWA, ILL.—Board of Local Improvements has adopted resolution providing for sewers in Center Ottawa that will cost $13,819.

CHICAGO, ILL.—Contract was awarded to Burke & Donohue for a sewer in 57th St., between Jackson Park Ave. and Cottage Grove Ave., at $58,716. Contract to Nash Bros., for sewer in Belmont Ave., between Lake View Ave. and Evanston Ave., at $26,021.

SPRINGFIELD, ILL.—Bids are asked until Sept 1, 3 p. m., for vitrified pipe sewers. Harry H. Devereux, Pres. Bd. Local Improvements.

OSHKOSH, WIS.—Sewers are under consideration for district bounded as follows: On the north by Grant St., on the east by Spruce St., on the south by Reed St., and on the west by Vinland St.

NEWTON, IA.—Contract for constructing approximately four miles of sanitary sewers, together with manholes, flush tanks and lampholes, was let to the King-Lambert Construction Co., Des Moines, Ia., at $28,956. A. C. Gates is Cy. Clk.; Chas. F. Sturtevant, Engr., 1208 Fisher Bldg., Chicago, Ill.

SHENANDOAH, IA.—Bids are asked until Sept. 2 for constructing two miles of sewers between Sheridan Ave. and Church St. Cost, about $12,000.

ST. PAUL, MINN.—City Engineer Rundlett has prepared specifications for Woodbridge St. sewer system that call for over half a mile of sewer on Woodbridge, Geranium and Albemarle Sts., part of which will be a main sewer.

WICHITA, KAN.—Bids are asked until Sept. 2 for construction of storm water sewers. Approximate quantities: 3,165 ft. of 8, 10, 18, 20 and 24-in. pipe; 17 catch-basins; 11 manholes; six observation holes. H. J. Harding, Cy. Engr.

TOPEKA, KAN.—Estimated cost of proposed sewers is as follows: Fifth Ward sewer, $66,752; Second Ward sewer, $136,385; Sixth Ward sewer, $70,960. Bonds will be issued for this work.

LINCOLN, NEB.—Sewer extensions will be made in various streets at cost of $8,087.

FLORENCE, NEB.—Bids are asked until Sept. 5 for building sewer in Dist. 1. L. F. Imm, Mayor; W. R. Wall, Cy. Clk.

WAHOO, NEB.—Bids are asked until Sept. 5 for constructing 25,550 ft. of sanitary sewers. Estimated cost as follows: Section 1, $3,300; 2, $5,100; 3, $2,200; 4, $2,400; 5, $1,600; total, $14,600. W. T. Pickett, Cy. Clk.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

BERESFORD, S. DAK.—Contract for 1,520 ft. of 8-in. and 770 ft. of 6-in. sewer was let to Jones & Roderick, Canton, S. Dak., at $2,000. H. A. Sturges is Cy. Audr.

KANSAS CITY, MO.—Park commissioners have voted to appropriate $14,000 toward the construction of sanitary and storm sewers in the East Bottoms, which will carry off the water from North Terrace Park. It is reported that the total cost will be about $53,000.

CAPE GIRARDEAU, MO.—City will install a sewer system at cost of $45,000.

DALLAS, TEX.—Oak Cliff sewer system will be extended, probably in a few weeks, it is reported

SEATTLE, WASH.—Plans have been filed for a sewer system on Renton Hill to be about 1½ miles long. Cost, about $15,500.

HOOD RIVER, ORE.—$15,000 sewer system will be installed.

SAN JOSE, CAL.—Roy E. Walter, Cy. Clk., informs us that bids were received on Aug. 22 for pipe sewers in Sixth and Ninth Sts. John Doyle, 660 North Tenth St., City, was lowest bidder on latter work at $624; Richard Ferrell, 496 Park Ave., City, was lowest bidder on former contract at $290.

BISHOP, CAL.—Election will be held Sept. 6, at which time will be submitted the question of issuing $2,500 bonds for constructing a drainage system, and $12,500 for a sewer system. W. W. Yandell, Cy. Clk.

SANTA ROSA, CAL.—Bonds will be issued for improvements, including $100,000 for improving sewer system.

LOS ANGELES, CAL.—The $220,000 municipal improvement bond issue has been defeated. The outfall sewer extension probably will be made under the Vrooman act. Approximate cost is $20,000.

LOS GATOS, CAL.—Bids are asked until Sept. 5 for construction of a septic sewer tank. K. H. Erickson, Cy. Clk.

SACRAMENTO, CAL.—Mayor has signed ordinance for the construction of canals and sewers to protect the levees and providing for the adoption of a plan for the improvement.

SAN FRANCISCO, CAL.—Bids are asked until Oct. 3 for purchase of bonds aggregating $4,673,600. $724,800 (Series 4), will be used for sewers.

EUREKA, CAL.—Bid of Wm. Heafey has been rejected for Sections 3 and 4 as sample of sewer pipe submitted was condemned. Contract for this section of the sewer system was awarded to Henry & Francis, of Ferndale. They also were assigned the contract secured by the Contra Costa Construction Co. for Sections 5, 6, 7 and 8.

SALT LAKE CITY, UTAH.—Council Committee on Sewers, Finance and Engineering recommends that $160,000 of bonds be issued, with which to remodel and complete the entire sewer system of the city.

ST. BONIFACE, MAN.—Sewers will be constructed on four streets at total cost of $14,581. Theo. Bertrand, Secy.-Treas.

ST. CATHERINES, ONT.—Bids for four sections of South End sewer system were received. Stewart & Langley were lowest bidders on all work at $52,751. For trunk section Shepard & Co.'s bid, with rock excavation estimated, was $17,900, with vitrified and $18,100 with concrete pipe. Barry & McMordie, City, $19,500, with vitrified and $19,600 with concrete tile. Stewart & Langley $20,046 with vitrified and $18,188 with concrete pipe. Local papers state that bid of Shepard & Co., may not be considered "because they are Americans, and no Canadian bid is ever considered on the other side of the river."

NIAGARA FALLS, ONT.—Bids were received for construction of South End sewers. Stewart & Langley were lowest bidders on Sec. 13, at $9,093, and on Sec. 11, at $8,733, and $3 for rock in each. John O'Leary, Ottawa, Section 11, $12,500 and $3 for excavation. Barry & McMordie, Section 12, $16,000 and $10.

GARBAGE DISPOSAL—STREET CLEANING

ELMIRA, N. Y.—We are informed that bids were received Aug. 26 from the following concerns for construction of garbage disposal plant: Decarie Mfg. Co., Minneapolis, Minn.; Clinton Foundry Co., New York; Wm. Nolan & Sons, Brooklyn, N. Y.; Davis Garbage Furnace Co., Lancaster, Pa. Details of the bids have not been made public at present, and city garbage committee will visit different plants before deciding. I. H. Levy is Cy. Clk.

WEST CHESTER, PA.—Leading citizens of this place are to inquire into cost and method of operating a garbage plant, and if it should seem advisable, Borough Council will later be asked to choose some system and introduce it.

FORT D. A. RUSSELL, WYO.—Contract for construction of garbage plant here is stated to have been let to Chas. F. Hendrie, Denver, Colo., for $8,200.

STREETS AND ROADS.

PORTLAND, ME.—Bids are asked until Sept. 7 for constructing roads, gutters, drains, etc., at Fort McKinley, Me. Capt. A. W. Yates, Q. M.

LAWRENCE, MASS.—Council has passed an ordinance providing for an issue of $15,000 bonds for street improvements, $10,000 of which will be expended, it is said, for paving Haverhill St. Paul Hannagan, Supt. of Sts.

EAST WINDSOR, CONN.—Contract for building a macadam road in this town was awarded to Amos Bridge, of Hazardville, at $4,226.

MIDDLEBURY, CONN.—Bids are asked until Sept. 3 for construction of a road.

EAST HAVEN, CONN.—Bids are asked until Sept. 3 for constructing macadam road. A. W. Sperry, 82 Church St., New Haven, is Engr.

ENFIELD, N. H.—Selectmen have decided in favor of building a new road on east side of Mascoma Lake. Estimated cost, $3,000.

NEW YORK, N. Y.—Bids are asked until Sept. 7 by John F. Ahearn, Pres. Boro. Manhattan, for repaving with asphalt pavement on about twenty streets. Work aggregates about 154,400 sq. yds. asphalt pavement, including binder course. Bids also asked for repaving with granite block pavement on concrete foundation.

Bids are asked until Sept. 8 by Commissioner of Parks for asphalting various walks and roadways in parks and parkways, Brooklyn. Also for laying cement sidewalks around Carroll Park, Prospect Park and Highland Boulevard, Brooklyn.

John F. Ahearn, Boro. Pres., has annulled existing contracts between the city and the Uvalde Asphalt Paving Co., 1 Broadway; the Barber Asphalt Paving Co., 114 Liberty St., and the Continental Asphalt Paving Co., 32

Broadway. Work affected by this cancellation is as follows: Uvalde Co., asphalting Fourth Ave., between Eighth and 24th Sts., Henry St., between Rutgers and Grand Sts.; Barber Co., asphalting Second Ave., from 74th to 83d St., Second Ave., from 119th to 127th St., Ave A, from 77th to 78th St., Lenox Ave., from 110th to 124th St.; Continental Co., asphalting 42d St., between Seventh and Tenth Aves. Cause of action was for violation of the 8-hour law. President Ahearn will advertise for bids to complete work at once, it is said.

GLENS FALLS, N. Y.—Bids are asked until Sept. 12 for constructing about 3,400 yds. of granite pavement. Geo. P. Slade, Village Engr. (Advertised, Engineering News.)

NEW YORK, N. Y.—We are informed that bids were received on Aug. 16 for grading and repaving with asphalt pavement, on present macadam foundation, St. Mary's Ave., Boro. Richmond. Barber Asphalt Paving Co., 114 Liberty St., was lowest bidder, at $9,012. Louis L. Tribus is Acting Pres. of Boro.

WATERTOWN, N. Y.—Henry E. Baker, Cy. Engr., writes that contract for State and Washington Sts. asphalt pavements, has been awarded to Warren Bros. Co., Boston.

WELLSVILLE, N. Y.—Contract for paving State, Pearl and Genesee Sts., with brick, bids opened Aug 25, has been let to Halfich & Co., Olean, N. Y., for $14,218.

FT. ONTARIO, N. Y.—C. L. Schutrum, Buffalo, N. Y., was lowest bidder, at $37,840, for grading, terracing and turfing, at Ft. Ontario. J. J. Fitzpatrick, Plattsburg, N. Y., was the lowest bidder for rock excavating, at $2.40 per cu. yd. Wm. M. Coulling, Q. M., Oswego, N. Y.

ELIZABETH, N. J.—Jos. J. Potts, 9 South Reid St., was awarded contract, at $6,399, for 1,800 sq. yds. oblong pavement, 810 lin. ft. curb reset and 140 lin. ft. new curb in Reid St., from Elizabeth to Third Ave. Contract for repaving West Jersey St., from Broad to Cherry St., was let to Wm. J. McCloud, City, at $6,692.

ATLANTIC CITY, N. J.—Council has passed the bill for the paving of Atlantic Ave., at a cost of $450,000. The West Jersey & Seashore Ry. Co. will pay $200,000 of the amount.

NEWARK, N. J.—Contracts for paving Plane St. and New St., with bitulithic pavement were awarded to Warren Bros. Co., Boston. Total, $35,251 and $7,824, respectively. Price was $2.25 per sq. yd. Bid was submitted by Thomas Parker, of Philadelphia, at $1.97 per sq. yd., but was not considered, owing to particular wording of specifications.

NEW CASTLE, PA.—Bids are asked until Sept. 12 for grading and paving portions of several streets. Chas. C. Duff, Cy. Clk.

FRANKLIN, PA.—City will advertise for bids in September for paving Otter St., between 13th and 14th Sts.

ALTOONA, PA.—Bids are asked until Sept. 2 for paving 16th St. with vitrified brick on a 6-in. Portland cement foundation; approximately 3,144 sq. yds. W. J. Hamor, Cy. Clk.

SWEDEN, PA.—Bids are asked until Sept. 7 by State Highway Department for constructing a road about 5,500 ft. long, 14 ft. wide. Specifications and bidding sheet are on file at office of Engineering News, New York.

EULALIA, PA.—Bids are asked until Sept. 17 by State Highway Department for constructing a road about 9,100 ft. long, 14 ft. wide. Specifications and bidding sheet are on file at office of Engineering News, New York.

COOPER, PA.—Bids are asked until Sept. 26 by State Highway Department for constructing a road from Winburne Station to a point on road leading to Peale. About 5,723 ft. long, 15 ft. wide. Specifications and bidding sheet are on file at New York office of Engineering News. Bids are asked also at same date for building a road from Kylertown to Peale; about 2,141 ft. long, 14 ft. wide.

PHILADELPHIA, PA.—Contract for building Torresdale Boulevard was awarded to D. J. McNichol, 794 Betz Bldg., at $500,000; for paving 75 streets and repaving 48 streets with natural refined asphalt, to the Barber Asphalt Paving Co., N. Y., at $1.83 per sq. yd.; totals about $400,000 and $265,000 respectively; contracts for paving 25 blocks and repaving eight blocks with granite block were awarded to Thos. P. Cunningham, D. McMahon, M. & J. B. McHugh, Michael O'Rourke, the Barber Asphalt Paving Co., Cunningham & Moore, and W. H. Ryan; for macadamizing 13 county roads, at a cost of $50,000, the contracts were divided among R. P. Bennis, E. H. Curtis, D. McMahon, T. F. Reilly and J. R. Shanley. The contract to continue the grading, paving, etc., between Trenton Ave. and Thompson St., including Allegheny Ave., etc., and constructing walks, has been awarded to Michael O'Rourke, Lehigh Ave. and Aramingo St., at $255,000.

It is reported that Peter E. Costello, Dir. Pub. Wks., will advertise early this month for bids for grading about 76 streets. Cost, $800,000.

PHILADELPHIA, PA.—Bids are asked until Sept. 6 for regrading and repaving with brick portions of several streets. Edward Martin, Dir. Pub. Health and Charities Dept.

MILTON, PA.—We are informed that Borsh & Co., Harrisburg, Pa., were awarded contract for 5,000 yds. paving. Reese-Hammond Co.'s block will be used.

WASHINGTON, D. C.—Bids are asked until Sept. 10 for laying cement sidewalks in the District of Columbia. Henry B. F. Macfarland, John Biddle, Comrs. (Advertised, Engineering News.)

TOWSON, MD.—Bids are asked by the Highways Commission of Baltimore County, Court House, until Sept. 8, for the construction of a macadam road, consisting of about 9,000 cu. yds. of excavation, 2,600 cu. yds. of broken stone, 55,000 sq. yds. of 4-in. macadam in place, etc. H. G. Shirley, Engr. (Advertised, Engineering News.)

MONTGOMERY, ALA.—Bids are asked until Sept. 5 by R. S. Williams, City, Treas., for paving sidewalks on portions of several streets.

DANDRIDGE, TENN.—Jefferson County Court has appropriated $50,000 for the purpose of building about 60 miles of pike road within the limits of this county. Pikes will be built as follows: From Dandridge to Jefferson City; from Dandridge to White Pine; from Dandridge to the Knox County line; from Dandridge south of the river. W. S. Park, Chn. Pike Comn.; C. E. Coile, Engr.

YOUNGSTOWN, O.—Bids are asked until Sept. 2 by the Board Public Service for paving portions of several streets. G. T. Prosser, Clk.

CLEVELAND, O.—Bids are asked by the Board of Public Service, 105 City Hall, until Sept. 6 for grading, draining, curbing and paving with Block Medina stone on a concrete foundation, Detroit St. W. J. Springborn, Pres.; A. R. Callow, Secy.

CLEVELAND, O.—Bids are asked until Sept. 1 by the Board Public Service for creosoted paving blocks, approximately 125,000 ft. B. M. of 3 × 3½-in. block and 100,000 ft. B. M. 3⅝-in. planking; also on same date for separation of grades Detroit St. and N. Y. C. & St. L. Ry., requiring 28,000 cu. yds. fill, and 4,400 cu. yds. concrete masonry; also on Sept. 6 for paving with dressed block Medina stone on concrete foundation Detroit St., in all about 2,500 sq. ft.

PRAIRIE DEPOT, O.—Bids are asked by A. E. Shultz, Clk., Sept. 20, for macadamizing Main St. Probable cost, $7,000. W. O. Bulger Engr., Fostoria, O.

MARYSVILLE, O.—Bids are asked until Sept. 15 for grading, curbing and paving with vitrified block Main, Court and Sixth Sts., about 4,300 sq. yds. paving and 1,800 lin. ft. 5-in. sandstone curbing; also furnishing material and setting about 2,300 lin. ft. 4-in. sandstone curbing on Eighth St. J. C. Kennedy, Village Engr.

PLYMOUTH, O.—Village has adopted resolution to construct brick, stone or concrete sidewalks on Riggs Ave.

DELAWARE, O.—Bids are asked by the Board of Public Service until Sept. 9 for furnishing material and constructing 17,700 sq. yds. brick pavement and 4,800 ft. of stone curb.; est. cost, $40,000. P. S. Dyke, Clk. (Advertised, Engineering News.)

LIMA, O.—Bids are asked by the Board of Public Service, City Building, until Sept. 6 for the construction of 1,560 sq. yds. of brick pavement and 1,000 ft. of 4 × 16-in. curbing. O. J. Rose, Clk.; R. H. Gamble, Ch. Engr.

POMEROY, O.—Bids are asked until Sept. 5 by Abe A. Massar, Village Clk., for improving by grading, draining, constructing necessary sewers and paving with brick portions of Front, Salt and Railroad Sts.

TOLEDO, O.—Bids are asked until Sept. 12 for road improvement in Lucas and Henry Counties. J. W. Kerr, L. B. Bailey, Frank Wortsmith, Comrs., Lucas County; Henry Eggers, Geo. Keeterle, Henry R. Rohrs, Comrs. Henry County.

CADIZ, O.—Bids are asked until Sept. 2 by the County Comrs. for constructing about 2,000 ft. limestone macadamized pike. John S. Lacey, County Audr.

ELMORE, O.—Contract for paving Rice St. extension with brick has been awarded to the Hanlon Construction Co., of Cleveland, O., at $7,467.

CINCINNATI, O.—Bids are asked by Board of Public Service until Sept. 20 for paving and repaving of brick sidewalks in the eastern and western sidewalk city districts for one year from date. At the same time bids will be received for the construction and repairing of plank sidewalks in the eastern and western sidewalk district; also, bids will be received for the construction and repair of artificial stone sidewalks for the eastern and western districts. Geo. F. Holmes, Clk.

SANDUSKY, O.—Bids are reported to have been received for paving as follows: Washington Row: Brick, J. E. Conley, Dayton, $8,257; sheet asphalt, Barber Asphalt Co., $8,560; block asphalt, C. H. Burchinal, $9,7607; bitulithic, Warren Bros. Co., $8,546. First St.: brick, Conley, $22,927; block, Burchinal, $27,135; sheet, Barber Co., $22,815; bitulithic, Warren Bros., $23,499. Camp St.: brick, Conley, $41,368; block, Burchinal, $49,802; sheet, Barber Co., $41,158; bitulithic, Warren Bros., $42,662.

RIVERSIDE CITY, IND.—Bids are asked for macadamizing Riverside Ave. until Sept. 8. J. Frank Mann, Clk., Muncie, Ind.

BRAZIL, IND.—Fitzpatrick Bros., City, were awarded contract to improve Cruzan and Ridge Sts., at $9,666.

RISINGSUN, IND.—Bids are asked until Sept. 5 by the Board County Commissioners for constructing a gravel road in Cass Township. Jas. W. Corson, County Audr.

RICHMOND, IND.—Bids are asked nutil Sept. 5 for improving certain streets by curbing, paving and cement walks. John F. Taggart, Cy. Clk.

KOKOMO, IND.—Contract to construct the Alexander gravel road in Ervin Township was awarded to Robt. C. Hillis, of Logansport, at $5,677.

Bids are asked until Sept. 5 for furnishing paving with vitrified brick on Main St.; also for constructing cement sidewalks 8 ft. wide on each side. C. R. Ford, Cy. Clk.

BEDFORD, IND.—Bids are asked until Sept. 5 by the Board County Commissioners for constructing gravel or macadamized roads in Shawswick Township, about 19,595 ft. Walter G. Owens, County Audr.

MARION, IND.—Bids are asked until Sept. 6 for grading, curbing and macadamizing roadway and grading lawn spaces on a portion of 20th St. C. G. Robbins, Cy. Clk.

WINAMAC, IND.—Contract for constructing 24 miles of gravel road has been awarded to John Hosel, City, at $20,824. E. S. Rees, County Audr.

NEW ALBANY, IND.—A resolution has been adopted by Council to pave with vitrified brick on East Sixth St., between Spring and Elm Sts.

Bids are asked until Sept. 6 for paving with brick East Third St. Eugene L. Brisby, Cy. Clk.

INDIANAPOLIS, IND.—Bids are asked until Sept. 5 by the Board Public Works for grading and paving with brick on a portion of Hillside Ave.; grading and paving sidewalks with cement on portions of several streets; also grading, graveling and rolling roadway on a portion of Cable St. M. A. Downing, Chn.

TERRE HAUTE, IND.—W. H. Harris was awarded contract for rebuilding river road, Sugar Creek township, at $3,800.

VINCENNES, IND.—Bids are asked until Sept. 12 for grading and graveling several streets. Tom Robertson is Cy. Clk.

DELROY, MICH.—Julius Porath was awarded contract for River St. paving, at $79,652. Malzein brick will be used.

MASON, MICH.—Bids are asked until Sept. 5 for constructing about 1,500 sq. yds. brick pavement on gravel foundation and about 600 ft. curbing. Ernest B. Kelly, Cy. Clk.

BAY CITY, MICH.—Bids are asked by John G. Buchanan, County Clk., until Sept. 3 for a steam road roller.

BAY CITY, MICH.—Bids are asked by the Bay County Commission until Sept. 3 for ditching and grading four miles of the Garfield road extension. John G. Buchanan, Clk.

ROCK ISLAND, ILL.—Bids are asked until Sept. 6 for paving. Wm. McConochie, Pres. Bd. Local Improvements.

SPRINGFIELD, ILL.—Contract to pave Douglas Ave., 12,300 sq. yds. pavement and 6,900 lin. ft. curbing, has been awarded to J. E. Bretz, at $17,650 and $3,588, respectively.

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GREEN BAY, WIS.—Bids are asked until Sept. 15 for improving by curbing and macadamizing portions of several streets; about 4,186 lin. ft. combined cement curb and gutter, 10,176 sq. yds. macadam, etc. [illegible] E. Duncan, Chn. Com. Sts. and Bridges.

PEORIA, ILL.—Contract for concrete walks in business section of city has been let to John B[illegible] & Son, Bloomington.

CHICAGO, ILL.—Contracts for paving, e[illegible] were let on Aug. 23, as follows: To the R. F. Conw[illegible] Co. contracts on Blackhawk St., between Halsted a[illegible] Sedgwick Sts., asphalt, at $26,692; California Ave., between Washington Boulevard and Twelfth St., asphalt, $61,427; Campbell Ave., between Polk and Twelfth S[illegible] asphalt, $15,345; Garfield Ave., between Halsted St. [illegible] Racine Ave., asphalt, $27,256; Chicago Ave., between [illegible] Clark St. and Lincoln Park Boulevard, asphalt, $2[illegible] Standard Paving Co.: Carroll Ave., between Hom[illegible] Central Park Aves., asphalt, $11,866; West Lake S[illegible] between Tolman and Homan Aves., asphalt, $62,0[illegible] Citizens' Construction Co.: Commercial Ave., between 87[illegible] 92d Sts., brick, $28,858; Waldo Pl., between H[illegible] and Desplaines Sts., granite, $10,279; West 12th S[illegible] between Ogden and Campbell Aves., asphalt, $19,911. [illegible] McGovern: West 57th St., between Center and Ashland Aves., macadam, $20,150. Barber Asphalt Co.: Wilcox Ave., between Sacramento and Washtenaw Aves., asphalt, $22,968; Erie St., between Western and Center Aves., asphalt, $72,852.

LINCOLN, ILL.—Board of Local Improvements has awarded street paving contract to Bretz & Son, of Springfield. Contract aggregates about $50,000 and provides for over two miles of pavement.

PAXTON, ILL.—H. & G. Turner, City, have been awarded contract for West State St. pavement, at $10,544.

HINSDALE, ILL.—Bids are asked until Sept. 6 (an extension of date from Aug. 29) for macadamizing, etc. Estimated cost, $4,105, $6,324.50 and $34,677.50. Wm. Duncan, Village Clk.; Vertus B. Roberts, Engr., Room 700 Reaper Blk., Chicago, Ill. (Advertised Engineering News.)

MORRIS, ILL.—Bids were received by Board of Local Improvements Aug. 22 for sewering, grading, curbing and paving Washington and Liberty Sts. with brick on 6-in. concrete foundation, consisting of about 8,720 cu. yds. excavation, 4,510 ft. curbing, 22,129 sq. yds. pavement, 2,171 ft. of 8 to 10-in. sewer, 48 catch-basins and 3 manholes, as advertised in Engineering News. H. C. Finley, of Hoopeston, was lowest bidder and was awarded contracts at about $8,265 and $35,200, respectively. John K. Telber, Pres.

MILWAUKEE, WIS.—Bids are asked by the Board of Public Works until Sept. 2 for furnishing material and grading a roadway, and paving the same with block on a concrete foundation. Chas. J. Poetsch, Comr.; F. F. Wilde, Deputy Comptroller.

CENTREVILLE, IA.—Bids are asked until Sept. 3 for 17,800 sq. yds. brick paving on a concrete base, and 5,800 lin. ft. cement curb; probable cost, $36,000. Thos. W. Meers, Cy. Clk.

COUNCIL BLUFFS, IA.—We are informed that Council has taken steps toward macadamizing West Broadway.

DAVENPORT, IA.—Perry St. will be paved. Estimated cost, $6,564. Edward Collins is Cy. Clk.

OSKALOOSA, IA.—North Ninth St. probably will be ordered paved. Council has ordered paving on Fifth Ave., between Market and First Sts.

Bids are asked by S. R. Crissy, Cy. Clk., until Sept. 12 for paving several streets.

DES MOINES, IA.—Council favors paving West Walnut St., between Second and Ninth Sts., by private contract.

WICHITA, KAN.—Bids are asked until Sept. 3 for cement curbing on several streets. J. L. Leland, Cy. Clk.

OMAHA, NEB.—Bids are asked until Sept. 2 for asphalt paving and repair plant for the use of and to be owned by the city of Omaha. Bidders are required to submit with their proposals plans and specifications covering the proposed plant construction, together with a statement giving the guaranteed heating and mixing capacity in cu. yds. per hour of asphalt and sand mixture at a temperature of 300° F. Plant to be erected, completed and ready for operation on or before Oct. 15, 1904, at a cost not exceeding $10,000. Andrew Rosewater, Chn. Bd. Pub. Wks.; William Coburn, Secy. (Advertised, Engineering News.)

LITTLE ROCK, ARK.—Contract to pave 10 blocks with Pike County asphalt has been awarded to the Arkansas Rock Asphalt Co., City, it is reported. Total cost, about $30,000.

WEBB CITY, MO.—Bids are asked by W. B. Smith, Cy. Engr., until Sept. 5 for constructing 8,306 sq. yds. of vitrified brick paving on Allen St., 4,402 sq. yds. on Daugherty St., and 3,422 sq. yds. on Main St.

SPOKANE, WASH.—Peter Costello was awarded following contracts: Sewer on Riverside Ave. from Monroe St. to Cedar St., at $3,880; grading Frederick Ave., from Monroe St. to Cedar St., $590; sidewalking same with cement, J. H. McAllister, $1,395; grading Jerome Ave., from Cedar St. to Post St., $1,080; sidewalking same with cement, $2,122; grading Augusta Ave., from Dakota St. to the Great Northern right of way, $1,250; sidewalking same with cement, $2,259. Mitchell Bros. awarded contract for grading Fifth Ave., from Bernard St. to Pine St., at $2,900; Barber Asphalt Co., for paving Second Ave with asphalt from Howard St. to Cedar St., $39,033; maintenance for 10 years, $3,903.

ELLENSBURG, WASH.—Bids are asked until Sept. 6 for construction of wagon road grade on Swauk road, 1,800 ft. of rock and earth. Also for construction of wagon road grade on Swauk road; road to be opened to Liberty. Grading contains 270 cu. yds. of rock and 273 cu. yds. of earth. H. M. Baldwin, Audr. Kittitas County.

SEATTLE, WASH.—Ordinances have been passed by Council ordering wood walks on Washington St., at estimated cost of $4,200, and asphalt paving of Pine St. and Second Ave., at est. cost of $21,000.

SAN FRANCISCO, CAL.—The Board of Works awarded contract for grading and macadamizing 19th Ave., from Trocadero culvert to Ocean road, to G. W. Cushing at $4,116.

CHICO, CAL.—Bids are asked until Sept. 14 by C. E. Steinegul, Cy. Clk., for furnishing city with a road or street grader.

SACRAMENTO, CAL.—State Highway Commissioner Ellery has completed and filed specifications and advertised for bids for the construction of five miles of free wagon road from Mono Lake Basin to connect with the Tioga road near Tioga mine, in Mono County.

OAKLAND, CAL.—H. O. Stillwell, Gen. Mgr. American Magnesite Co., has petitioned Supervisors to complete the proposed road to the magnesite mines in this county and Santa Clara County. Supervisors instructed the County

Surveyor to draw up a resolution calling for bids for the construction of the proposed road. It will cost about $50,000.

STOCKTON, CAL.—Bids are asked by Geo. S. Wheatly, Cy. Clk., until Sept. 12 for constructing concrete gutters, [illegible] x 6 ins., in Church St., from Grant to American St., and constructing a row of basalt paving blocks 4 ins. wide; also in Stanislaus St., from Washington to Market St., and in Worth St., from Hunter to El Dorado St.

C. [illegible] Williams, Mayor, has approved the resolutions passed by the Council ordering that Union St., from Channel St. to Miner Ave., be graded and curbed with redwood curbs; that a concrete gutter 18 ins. wide and 6 ins. deep be constructed on both sides of the roadway thereof; that a row of basalt paving, consisting of blocks 6 ins. wide and 8 ins. long and 6 ins. deep, be laid along the edge of these gutters.

UKIAH, CAL.—J. W. Pickle was only bidder for the construction of the Coyote valley road, at $2,150. This was rejected and new bids are asked until Sept. 6. Hale McCowen, County Clk.

VALLEJO, CAL.—L. Haarsberg, Cy. Engr., writes that bids will be asked for paving four blocks of alley and one block of street with 6-in. concrete and 2-in. bituminous pavement. City also intends advertising for bids on filling in with earth and grading 100 ft. of street at an estimated cost of $1,100. There will be 2,600 cu. yds. earth fill and 275 cu. yds. rock fill. Estimated cost of grading and paving four blocks of alley is $6,270. Estimate on one block of street paving $0.24 per sq. ft.

HALIFAX, N. S.—Council has awarded contract to the Warren Bros. Co., of Boston, for paving Granville St. with bitulithic. Cost, $6,000. Steps are being taken to secure estimates for the paving of all the principal streets of this city.

MANUFACTURING PLANTS.

NEW BEDFORD, MASS.—A new company, to engage in the spinning of fine yarns in this city, has been organized with a capital stock of $600,000. Work will be begun at once on the erection of a 50,000-spindle mill in this city. Edward Kilburn is Pres.

WESTBORO, MASS.—Westboro Carpet Co. will utilize old automobile factory here for manufacturing purposes, and expects to have plant in operation within two months. W. J. Hogg is interested.

SPRINGFIELD, MASS.—McCallum Hosiery Co., according to reports, is to build an addition to its mill on West St., which will be 60 ft. sq. and two stories high.

PIERCEFIELD, N. Y.—The Boston firm of Frank B. Gilbreth, general contractor, Boston, Mass., was recently awarded contracts for the construction of five houses, an office building, storehouse, stable and a tall chimney, for the International Paper Co., at Piercefield, New York. The site is located in the very heart of the Adirondacks. The contract calls for the work to be done before cold weather, which is generally expected about November 1st in that locality.

SCHUYLERVILLE, N. Y.—Tucker & Vinton, 156 5th Ave., New York, have received the contract for a pulp mill and dam to be erected by the American Wood Board Co., Schuylerville, N. Y. The Amburson Hydraulic Construction Co., 176 Federal St., Boston, Mass., are the sub-contractors for the dam, the rollway of which is 250 ft. long and 25 ft. high. The Consulting Engineer is Geo. F. Hardy, 309 Broadway, New York.

UTICA, N. Y.—The Utica Steam and Mohawk Valley Cotton Mills, it is reported, will build a new five-story mill.

PITTSBURG, PA.—The Horseshoe Specialties Co., Schmidt Bldg., Pittsburg, capitalized at $100,000, is seeking a location along the Monongahela River. The company will erect a $50,000 plant, and will manufacture a removable caulk horseshoe. Contract for equipment is stated to have been let.

UNIONTOWN, PA.—McConnell Wheel & Mine Supply Co., recently incorporated with $100,000 capital, proposes to manufacture car wheels grey iron and brass castings. L. Frank Baker and Clifford H. Drum, California, Pa., are interested.

PHILADELPHIA, PA.—Geo. Gray, 1670 Margaret St., has been awarded contract for one-story, brick, 75 ft. × 150 ft. foundry at Church and Tackawanna Sts., for the Penn Iron Foundry Co.

Wm. Steele & Sons, 16th and Arch Sts., have been awarded the contract for three-story, 285 × 65 ft., brick, slow-burning factory and power house, to be erected at Ontario and I Sts. Steam heating, elevator, electric lighting, power plant and special machinery are to be installed.

PETERSBURG, VA.—Robert Portner Brewing Co. is to erect brewery depot, which, with equipment, will cost about $50,000. First story is to be of brownstone, and other story of pressed brick.

GASTONIA, N. C.—Loray Mills, Col. T. E. Moore, Pres., will, it is stated, soon add 2,000 spindles to its equipment.

GREENWOOD, S. C.—A company is being organized here to build a waste mill. It will have a capital stock of $50,000, and will manufacture yarn from mill waste.

MARION, S. C.—Marion Cotton Mills Co., capital $100,000, has applied for a charter, and will establish a cotton mill, possibly buying the Ashby Mills, a 3,000-spindle plant. William Stackhouse, of Dillon, will be Pres.

EASLEY, S. C.—It is reported that the Glenwood Cotton Mills, Easley, S. C. will install 5,000 additional spindles and the necessary complement of looms.

SPARTANBURG S. C.—The Drayton Mills of Spartanburg, 12,440 spindles and 360 looms on the production of fine cotton cloth, will double its present plant. Lockwood, Greene & Co., Boston, Mass., are Archs. and Engrs.

DARLINGTON, S. C.—The Darlington Mfg. Co. is said to be making arrangements to add 12,000 spindles to its equipment.

COLUMBUS, GA.—John T. Abney will it is stated, organize company to build new cotton mill here.

SAVANNAH, GA.—Building of Mohr Bros., occupied by L. Mohr & Sons, pants manufacturers, was damaged to extent of $30,000 by recent fire.

MIAMI, FLA.—Biscayne Starch Mfg. Co. is to erect a starch factory here, according to reports. C. W. Jernigan, Lake Neary, Fla., is Pres.

It is stated that a company is being formed to establish a cotton mill here.

BIRMINGHAM, ALA.—Universal Electric Equipment Co., John L. Parker, Birmingham, Pres., recently organized with $60,000 capital, will erect a factory here to manufacture electrical train lighting machinery and other electrical appliances.

BIRMINGHAM, ALA.—W. H. Thompson, Pres. Riverside Brick Co., writes us that their plant is now fully equipped, and that they are not now in the market for any kind of machinery.

NEWTON, MISS.—Newton Vehicle Stock Co. is to erect $25,000 manufacturing plant, with full equipment. As soon as plans are received work on buildings is to be taken up.

COLUMBUS, MISS.—Site has been secured, and Dodson Plow Co., Humboldt, Tenn., will soon remove its plant to this city. W. C. McClure is interested.

NEWTON, MISS.—Stock company may be formed here to erect $5,000 canning plant. J. C. McClinton may be able to give information.

NEW ORLEANS, LA.—Louis P. Rice & Co., saddlery manufacturers, will, it is stated, erect $150,000 structure. Building is to be equipped for manufacturing plant in part, and for wholesale offices.

COLUMBIA, TENN.—It is stated that the N. F. Vaughan Mfg. Co., whose mill was destroyed by fire Aug. 18, will rebuild on a large scale at once.

CHATTANOOGA, TENN.—N. Dietzen & Bro. will, at an early date, build a large canning factory and distillery at their peach orchard, near Rhea Springs.

IRONDALE, O.—Ohio Coal & Coke Co., J. W. Bock, Pres., will establish coal and coke plant here. Company owns 1,000 acres of land, and has options on 1,000 additional. F. C. Green, 1123 Citizens' Bldg., Cleveland, O., is Engr.

LA PORTE, IND.—Paul Gerhardt, Arch., Schiller Bldg., Chicago, Ill., has been drawing plans for erection of machine shop, to cost about $150,000, at this place for the International Gas Engine Co.

CHICAGO, ILL.—Hill & Woltersdorf, Archs., 70 La Salle St., have been preparing plans for 4-story 125 × 117 ft. pressed brick, mill construction, manufacturing block, to be erected for Richard S. Reynolds, Utica, N. Y., at corner Green and Congress Sts.

William Thomas, Metropolitan Block, is stated to have been preparing plans for 4-story factory to be built on the west side.

ELGIN, ILL.—Plant of Fauber Mfg. Co., makers of motor cars and automobiles, was considerably damaged by recent fire, press reports setting loss at about $100,000.

DES MOINES IA.—S. E. Snively, of the Beatrice Creamery Co., is stated to have purchased plant of Waterloo Creamery Co., and proposes to make Des Moines a centralizing station for all middle Iowa, and eventually to erect a $100,000 creamery and cold storage plant here.

SIOUX CITY, IA.—Milling plant of Curtis Sash & Door Co. was burned Aug. 23, with $30,000 loss; insurance was $20,500.

MINNEAPOLIS, MINN.—John Leslie Paper Co. will erect 4-story paper warehouse and office building at Third Ave., South and Fifth Sts., to cost about $40,000.

SEDALIA, MO.—Sedalia Woolen Mills Co. was recently incorporated with $30,000 capital. M. D. Moore, Cole Camp, Mo., and Frank Hungelman, Sedalia, are interested.

BELTON, TEX.—The Belton Cotton Mills, it is reported, will be enlarged to double their present capacity. The present equipment is 3,121 spindles and 10 looms. The mills manufacture worsteds.

GALVESTON, TEX.—Nederland Rice Mill Co. has placed contract with W. C. Whitney, Beaumont, Tex., for erection of 60,000 bu. elevator at Nederland.

SAN ANTONIO, TEX.—Morris Glass Co., Point Marion, Pa., Lee Titus, Secy., is stated to be considering building glass factory here.

EL PASO, TEX.—Chamber of Commerce has received proposition from H. B. Stubbs, St. Louis, Mo., to erect cracker plant in El Paso, with equipment, to cost, excluding the land and building, $18,000. In connection with the factory he intends to run a modern bakery establishment.

DALLAS, TEX.—A. G. Elliott Paper Co. has amended its charter to increase its capital stock by $100,000.

BICKLETON, WASH.—George McCredy and Dr. A. F. Brockman are interested in establishment of flour mill here. It is proposed to erect a plant to cost not less than $15,000.

BROOKLYN, WASH.—Brooklyn flouring mills, belonging to Portland Flouring Mills Co., are stated to have been destroyed by fire, with $50,000 loss.

CLARKSTON, WASH.—White Bros. & Crum Co., Ltd., will erect a canning plant here.

ASTORIA, ORE.—The Western Can Making Machinery Co., recently incorporated with capital stock of $43,200, proposes to erect a factory in Astoria to manufacture can-making machinery and also sheet-metal cans.

OAKLAND, CAL.—American Magnesite Co. proposes to build factory for manufacture of door frames, etc.

MODESTO, CAL.—Local reports state that Ora McHenrym, owner of the Bald Eagle ranch, intends to organize a company for the purpose of erecting a slaughtering and packing establishment, to cost about $1,000,000.

OAKLAND, CAL.—It is stated that J. V. Rose intends to organize the Rose Brick Co., to erect a plant here, which will have a capacity of 100,000 bricks a day.

The Plastic Construction Co. will build a factory here for the manufacture of patent brick and construction material.

STOCKTON, CAL.—The Angels Iron Works, according to reports, will soon commence work of construction on the new foundry and machine shops.

ANDERSON, CAL.—E. S. Hartwell & Co., Chicago, Ill., may erect a planing mill in the near future.

FOREST MILLS, ONT.—Woolen mill of F. A. Breeze was burned recently, with $5,000 loss.

DRUMMONDVILLE, QUE.—Drummond Cotton & Bleaching Co., recently incorporated with $150,000 capital stock, will, it is stated, establish bleaching and finishing plant at this place. James William Woods, Ottawa, Ont., and George A. Gatehouse, Montreal, Que., are interested.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

MISCELLANEOUS CONTRACTS.

DOCK EXTENSION.—Everett, Wash.—Dock of Mukilteo Mill is to be enlarged from 300 to 500 ft., according to reports.

STEEL LOCK GATES.—Louisville, Ky.—Bids are asked until Sept. 30 for steel lock gates, etc. Capt. H. Burgess, U. S. Engrs. (Advertised, Engineering News.)

DAM.—Prosser, Wash.—Prosser Falls Land & Irrigation Co. and the Flouring Mill Co. contemplate starting work on construction of a dam across the falls.

STEAMER.—Tacoma, Wash.—Contract for building new steamer for Frank Bibbins and Arthur Hunt, Tacoma, has been let to Crawford & Reid for $22,000.

DREDGING.—Albany, N. Y.—Bids are asked until Sept. 3 for dredging mouth of Scriba Creek, Village of Constantia. Henry A. Van Alstyne, State Engr.

DAM.—Lynn, Mass.—Construction of dam at cost of $5,000 at Flax Pond to regulate flow of Strawberry Brook is under consideration. C. I. Leland is Cy. Engr.

LEVEE.—Muncie, Ind.—Fred. Crandall, Cy. Engr., has completed surveys and estimates for proposed levee to extend along south and east banks of White River.

DREDGING.—New London, Conn.—Bids are asked until Sept. 17 for dredging at Milford Harbor. Lieut.-Col. C. F. Powell, Engr. (Advertised, Engineering News.)

DAM.—Cincinnati, O.—Bids are asked until Sept. 27 for building Dam. No. 37, Ohio River, est cost, $800,000. Col. G. J. Lydecker, Engr. (Advertised, Engineering News.)

DRAINAGE DITCHES.—Albion, Ind.—Bids are asked until Sept. 7 for constructing main ditch (dredge work) and several branches (shovel work). John T. Graves, Drainage Comr.

LOCK GATES.—Pittsburg, Pa.—Bids are asked until Sept. 8 for building and erecting in place four pairs of lock gates and anchorages. Maj. Wm. L. Sibert, U. S. Engrs. (Advertised, Engineering News.)

JETTY.—New York, N. Y.—Bids are asked by Park Board, 5th Ave. and 64th St., New York, until Sept. 8 for labor and materials to complete a timber jetty on beach at Coney Island. John J. Pallas, Pres.

WIDENING CREEK.—Kansas City, Mo.—Plans have been prepared by D. W. Pike, Cy. Engr., and S. A. Mitchell, Engr., Water Board for reclaming channel of Turkey Creek. Est. cost of work is $95,407.

DRAINAGE WORK.—Mauston, Wis.—W. N. Andrews, Hamilton, O., is stated to have contract, involving $60,000, for construction of 27 mile drainage canal for Jackson, Juneau and Monroe Counties, Wisconsin.

STONE DAM.—Columbus, Ga.—City Mills Co. has let contract to R. H. Hardaway to construct dam, composed of granite laid in Portland cement, across the Chattahoochee River. Contract involves about $75,000.

RUBBER TILE.—Pittsburg, Pa.—Pennsylvania Rubber Co., Pittsburg, Pa., has secured contract for about 112,000 sq. ft. of rubber floor tiling for the New Carnegie Institute building. Contract involves about $100,000.

CANAL.—New Orleans, La.—Bids as follows were received by Sewerage and Water Board, Aug. 22, for digging canal to connect Taylor Ave. Canal with Orleans Canal: Frederick Camors, $9,342; W. O. & C. G. Burton, $13,045.

AMUSEMENT PARK.—Atlantic City, N. J.—Frederick Thompson, one of the owners of Luna Park, is stated to have had plans prepared for the erection of an amusement park at Atlantic City on the same lines as the one at Coney Island.

DOCK WORK.—Huntington (L. I.), N. Y.—Bids are asked until Sept. 10 for the construction of an extension to a dock and for dredging a channel adjacent to said dock. W. Wilton Wood may be addressed. (Advertised, Engineering News.)

CLEANING LAKE.—New York, N. Y.—Bids are asked by Park Board, Arsenal Bldg., until Sept. 8 for work and materials required for cleaning the lake in Prospect Park, Borough of Brooklyn, of all refuse, weeds, etc. John J. Pallas, Pres.

DRY DOCK.—Washington, D. C.—It is stated that date of opening bids for the construction of the dry dock at the New York Navy Yard has been postponed from Aug. 27 to Sept. 3, at the request of an intending bidder who was not able to prepare his estimate.

LEVEE WORK.—Sacramento, Cal.—Property owners of Reclamation District No. 673 have raised $53,000 by subscription to be used in strengthening and repairing the levee, putting in a new pumping plant and completing the work of reclamation. Work will begin soon.

UNDERGROUND CABLE.—Buffalo, N. Y.—Knickerbocker Construction Co., 15 Cortlandt St., New York, has been awarded contract for installation of 5,000 ft. of underground cable for the Buffalo, N. Y., Fire Department. The cable is being manufactured by the American Electrical Works of Philipsdale, R. I.

CUT GRANITE.—Washington, D. C.—Bids are asked until Oct. 1 for furnishing and delivering all of the cut granite required for the front and court walls, exclusive of the south pavilion, of the new building for the National Museum. Bernard R. Green, Supt. of Construction. (Advertised, Engineering News.)

ELECTRIC CAPSTANS.—Washington, D. C.—Bids are asked by Bureau Yards and Docks until Sept. 17 for furnishing and installing three electric dock capstans, with 15-HP. motors, at Boston, Mass., Navy Yard. Est. cost is $4,800. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

UNDERGROUND CABLES.—Washington, D. C.—Bids are asked by Bureau Yards and Docks until Sept. 17 for furnishing and installing lead encased cables at League Island, Pa., Navy Yard. Est. cost is $2,400. M. T. Endicott, Ch. Bureau. Specifications for above work are on file of Engineering News, 220 Broadway, New York.

ELECTRIC CABLES.—Gowanda, N. Y.—Bids are asked by the State Commission in Lunacy, Albany, until Sept. 7 for electric feeder cables and connections for the superintendent's residence, staff building, amusement hall and nurses' home at the Gowanda State Homeopathic Hospital. T. E. McGarr, Secy. (Advertised, Engineering News.)

CONCRETE DRAIN.—Washington, D. C.—Bids are asked by Bureau Yards and Docks until Sept. 17 for constructing brick-lined concrete drain at navy yard, Boston, Mass. Est. cost is $14,000. M. T. Endicott, Ch. Bureau. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

PIER WORK.—Chicago, Ill.—Bids are asked by South Park Commissioners, E. G. Shumway, Secy., 57th St. and Cottage Grove Ave., until Sept. 7 for furnishing all material and doing all work required in the construction of about 750 ft. of pile pier, about 800 ft. of docking and the removal of about 100 ft. of old pier in Lake Michigan at Jackson Park.

REBUILDING DAM.—Austin, Tex.—Mass meeting was held here recently and committee appointed to secure rebuilding of dam across the Colorado River. Proposition made by Pennsylvania capitalists for rebuilding the dam has been withdrawn, and it is now proposed to have it done by other parties. The cost of the work is estimated at about $600,000.

LEVEE WORK.—New Orleans, La.—Bids are asked by Capt. J. F. McIndoe, U. S. Engrs., New Orleans, until Sept. 6 for construction of about 45,300 cu. yds. earthwork in Barataria Levee District and 73,000 cu. yds. earthwork in Lake Borgne Levee District. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

DRY DOCK.—Washington, D. C.—Bids are asked by Bureau Yards and Docks until Oct. 15 for completing concrete and stone dry dock at navy yard, Mare Island, Cal. M. T. Endicott, Ch. Bureau. Specifications for above, as well as inventory of plant of former contractors, now in possession of U. S. Government, are on file at office of Engineering News, 220 Broadway, New York.

STONE WALL.—Chicago, Ill.—Bids are asked until Sept. 21 for construction of stone wall around the Confederate cemetery at Camp Chase, near Columbus, O. Plans and specifications may be seen at the office of the Quartermaster here, or at the Quartermaster's office, Columbus Barracks, O. Bids should be addressed to Lieut. W. H. Miller, Chf. Qmr., 416 Pullman Bldg., Chicago, Ill.

OUTFALL DRAIN.—Watertown, Mass.—Bids are asked until Sept. 6 for building outfall drain; main drain is to be about 25 ft. long, 12 ft. wide inside and 6 ft. high, with a bell-mouth and two auxiliary drains, one drain to be about 22 ft. long and the other 12 ft. and both to be 6 ft. in height, the whole to be of concrete reinforced with steel rods. Bartlett M. Shaw, Chn. Selectmen; W. F. Learned, Town Engr.

RIVER DEEPENING.—Chicago, Ill.—Bids were received by Trustees Sanitary District of Chicago, Aug. 24 for deepening west fork of south branch of Chicago River. Hardin & Co., Chicago, Ill., at $25,386, and Hayes Bros. & Co., Janesville, Wis., at $25,902, were low bidders. Work consists of erecting two coffer dams, 25,174 cu. yds. earth excavation; 5,095 cu. yds. rock excavation; construction of box drains and box and pipe intakes. Itemized bids are given under Contract Prices.

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until Sept. 27 for furnishing at navy yards at New York; League Island, Pa.; Washington, D. C.; Norfolk, Va.; Pensacola, Fla., and Puget Sound, Wash., a quantity of machine tools, etc., comprising gap lathes, engine lathes, drilling machine, milling machine, shaper, punching and shearing machines, winches, molder, planer, tenoning machine and traveling crane.

CANAL BOATS.—Albany, N. Y.—Horace See, Naval Arch., New York, has reported to Henry A. Van Alstyne, State Engr., on type of boat best adapted to proposed 1,000-ton barge canal. Mr. See has prepared a design for a barge 150 ft. long and 27 ft. wide under 10-ft. draft that will carry 1,020 tons of wheat. The type is such that the midship section and form of ends are best suited for carrying the load without damage to the canal or vessel, as well as for the movement of the barges with the least resistance in the water.

TUNNEL, RESERVOIR, ETC.—Cincinnati, O.—Following are lowest bids received by Board Public Service for improvements at City Infirmary, for which $40,000 bond issue is provided:

Tunnel, Fidelity Deposit Co., and John A. Jewett & Sons, $7,315; reinforced concrete reservoir, L. P. Hazen & Co., $8,438; new steam heating system, Thomas J. Nichol & Co., $4,661; pipe laying and valves, William Attlesey, $2,450; horizontal flue boilers, Tudor Boiler Mfg. Co., $1,285; remodeling toilet and bathrooms, Thomas Canary, $12,488.

TELEPHONE WORK.—Texas, Oklahoma, Indian Territory.—City Council of El Paso, Tex., is considering application of R. A. Wooldridge and C. F. Wren to establish telephone system in that city. They propose to spend $100,000 on the work.——Victoria County Commissioners have granted franchise to citizens of Town of Victoria and Mission Valley for construction of telephone line between the two places.——Northwestern Telephone Exchange has been organized at Foss, Okla., with $5,000 capital. S. H. James is interested.——M. T. Sherman, Joplin, Mo., according to reports, is to install a telephone system at Jennings, Okla.——Chickasha-Alters Telephone Co. is to extend its long distance line to Hobart and Mangum, Okla.——Central Energy Bell Telephone System will, it is stated, install system at South McAlester, Ind. T., at est. cost of $50,000.

MINING NOTES.

TRAMWAYS.—Camborne, B. C.—It is reported that forest fires have destroyed the tramway of the Goldfinch, also upper portion of the tramway of the Eva mine, which is 500 ft. long, and which cost $13,000.

MILL.—Bisbee, Ariz.—Local reports state that a London company has been formed with a capital of $500,000 to develop a group of mines near Santa Rosa. It is their intention to put in a large plant and build a mill.

MINING WORK.—Castleton, Utah.—Local reports state that it is reported that the famous "Wilson mesa" lode has been discovered by William Hayes & Sons; they have a shaft sunk on the property, about 40 ft. deep, and claim they will work it all winter.

REDUCTION PLANT.—Basin, Utah.—It is probable that arrangements will be made by the Welsh-Lofftus Rare Metals Co., Niagara Falls, N. Y., for building a plant in the Grand River for the reduction of the ores of the mines. J. H. Lofftus has charge of the property.

MINING DREDGER.—Auburn, Cal.—The Eagle Bar Placer Mining Co., Ltd., has been organized by Dr. Huntington, of Oakland, and others. The company has purchased the Channel Bend River claim on the Forest Hill Divide and will probably put in a dredger later on.

MINING TUNNEL.—Spake, Wash.—Palmer Mountain Tunnel Co. is stated to have raised about $125,000 to drive the long tunnel, now in over 4,000 ft. and to erect and equip extensive reduction works. Excavations are now being made for the plant, which will doubtless be in operation this season.

MILL.—Utah.—The Grouse Mountain Mining & Smelting Co., with principal offices at Huntington, W. Va., has sent an expert to its mines in Miners' Basin, La Sal Mining District, Grand County, Utah, to arrange for building a mill. The company owns nine mining claims, comprising 180 acres, and one water right. W. R. Wheat, Castleton, Utah, is Supt. of Mines.

MINE DEVELOPMENT.—Grass Valley, Cal.—The McLean claim situated between French Corral and Birchville has been leased to Richard I. Thomas. Up-to-date machinery will be installed. The development includes besides drifts for prospecting, the sinking of shafts and the erection of hoists for the raising of pay dirt. In the future, construction of a 10-stamp mill is contemplated. R. A. Thomas will be Supt.

MINING DEVELOPMENT.—Utah.—Ren Hatch, in Sinbad has sold his copper properties to Colonel Woods, of Denver, Colo.; Chas. E. Miller, Castleton, Utah, and Jas. Emmitt, Castleton, Utah. The properties comprise a large vein of copper, gold and cobalt bearing rock, and the owners are preparing to build roads and ship ore at once. It is claimed by the former owner that they have 500,000 tons of ore in sight. The ore is stated to be very fine. Some picked samples assaying 30% copper and $65 in gold.

MINING MACHINERY.—Salt Lake City, Utah.—Reports from this section indicate that mining machinery will be required as follows: J. King, of Mokelumne Hill, Cal., will equip the Hamby mine with a 20-stamp mill and other machinery.——The Vonich Mining Co., operating near Angels, Cal., will soon install a 30-stamp mill on its property.——The Butler-Liberal Mining Co., of Salt Lake City, Utah, will soon be in the market for machinery for new hoisting works.——The Summit Placer Co., of Colton, Utah, T. P. Rigney, Mgr., will probably put in reduction works this year.

MILL.—Prescott, Ariz.—Local reports quote Supt. C. K. Tibbits of the Pfau Gold Mining & Reduction Co. as stating that his company will install a larger mill on its Cherry Creek property. The plant will have a capacity of 125 tons per day. It will require four gas engines to run the plant. The mill will require a 55-HP. engine, the pumps and agitators a 30-HP. engine and the hoist and mine pumps an 85-HP. engine and the air compressor a 75-HP. engine. These engines will be the upright double cylinder pattern constructed to manufacture their own gas from crude oil or untreated distillate.

U. S. POSSESSIONS AND CUBA.

BRIDGE.—Manila, P. I.—The municipal board contemplate the erection of a new bridge, to cost $100,000, below the present bridge of Spain.

GAS PLANT.—Honolulu, T. H.—Honolulu Gas Co., Ltd., has been incorporated with $200,000 capital to take over Diamond franchise for manufacture of gas for this city. Wm. R. Castle is Pres. and Emil Berndt, Secy.

PORTLAND CEMENT.—Manila, P. I.—Advertisement will soon be made for about 30,000 bbls of Portland cement for the Cebu harbor improvements by the Bureau of Engineering, Manila, P. I. J. W. Beardsley, is Consult. Engr. of Commission.

WHARF.—Honolulu, T. H.—The Supreme Court has decided that the contract let by Board of Public Works to the American-Hawaiian Engineering Co., for constructing Brewer's wharf and shed was invalid. It is stated that C. S. Holloway, Supt. Pub. Wks., will at once call for new bids. Former contract was let for $38,700 and 28 cts. per sq. ft. for bitumen and concrete foundation.

MEXICO.

RAILWAYS.

ATLIXCO, PUEBLA.—The Xico & San Rafael Ry. Co. is to extend its line from Apapasco, its present southern terminus, to Atlixco, making a short route from the City of Mexico to Puebla. The name of the road will be changed to San Rafael & Atlixco. Jose Sanchez Ramos, of the San Rafael paper mills, is Pres. James Walker, manager of the Bank of London and Mexico, is Vice-Pres. Manuel Contreras Juarez is Gen. Mgr.

CITY OF MEXICO.—The Monte Alto R. R., which is in operation from Tlalnepantla to San Pedro, state of Mexico, is to be extended to the City of Mexico, with its terminus in Santa Maria, near the Mexican Central station. An existing line from Tlalnepantla to Atzcapotzalco will be utilized, the extension being from the latter point. L. Hupin is Gen. Mgr., City of Mexico, and Andres Aguayo, with headquarters at Pedregal, state of Mexico, is Supt.

TEPIC.—Julio Rodgers, who secured a concession for the construction of a railway from the city of Tepic to the port of San Blas about a year ago, is said to have interested parties, who have subscribed necessary capital. It is estimated the road will cost $1,000,000, gold, and if the question of right of way is settled, the road will be built, and work commence within six months. The road will be narrow gage. Mr. Rodgers is now in Tepic, but will go to the city of New York soon. The line will be about 35 miles long.

SALTILLO.—An offer to purchase the Coahuila & Pacific R. R. is stated to have been made, and efforts are under way to reorganize the company, with a view of extending it from Saltillo and Torreon, its present terminals. L. D. Ross, Saltillo, is Gen. Mgr.

YUCATAN.—A subsidy of $6,250 per kilometer will be paid by the Government for the construction of a railway from a point on the main line of the Merida and Peto Railroad to Villa de Satula, state of Yucatan, a distance of 125 kilometers. Joaquin D. Casasus, City of Mexico, is attorney for the company.

STREET AND ELECTRIC RAILWAYS.

AGUAS CALIENTES.—It is stated that the John Douglas, of Aguas Calientes, and associates, who own the new electric street railway system in this city, have purchased the competing system, which is at present operated by animal traction, and that the two systems will be merged into one, electric traction being substituted for mules on the acquired system.

LIGHT AND POWER PLANTS.

ALMOLOYA, CHIHUAHUA.—A power plant will be erected at the El Dorado station, on the Parral branch of the Mexican Central Ry., state of Chihuahua, from which power will be transmitted to the Central mine and annexes, at Almoloya. N. O. Bagge, Los Angeles, Cal., has lately purchased the property, and proposes to push work vigorously.

CITY OF MEXICO.—National Electric Power Co. of Mexico, capitalized at $5,000,000, and with P. H. Burch, Ralph Wormelle, D. F. Pearce and R. K. Van Mater as incorporators, has filed certificate of incorporation at Washington, D. C.

CHIHUAHUA.—Ramon F. Lujan and Julio Muller, wealthy landowners of the state of Chihuahua, who recently acquired the extensive ranch known as the "Unidos el Rio del Valle," in this state, for $700,000, have also purchased a concession to install a large electric power plant on the property. This plant [illegible] be established at a natural waterfall on the ranch [illegible] the power thus generated will be transmitted to the [illegible] of Parral and Jiminez for municipal and comme[illegible] purposes. Messrs. Muller and Lujon will also est[illegible] [illegible]rge systems of irrigation on the ranch, it bei[illegible] to construct large dams for impounding [illegible] purpose.

EL ORO, MEXICO.—J. T. Hill, Elec. E[illegible] City of Mexico, is planning the electrical inst[illegible] for the Esperanza Mining Co., of El Oro. The [illegible] is to abandon the use of its steam power pl[illegible] utilize electrical power from the plant being er[illegible] Necaxa by the Mexican Light & Power Co., the ste[illegible] being held in reserve. A similar installation is t[illegible] made also by the El Oro Mining & Railway Co.

MAZATLAN.—Guadalupe de los Reyes M[illegible] according to reports will install a power plant [illegible] Piaxtla River. The power generated will be us[illegible] operating machinery at the mines of the company [illegible] may also be supplied to the town of San Ignacio [illegible] lighting and power purposes.

MUZQUIZ, COAHUILA.—A concession has [illegible] granted for the establishment of an electric light pl[illegible]

TUXPAM, JALISCO.—Odilon Villanueva, [illegible] wealthy landowner of the state of Jalisco, has inte[illegible] other capitalists in the establishment of a large e[illegible] power plant on the Tuxpam River. It is announced [illegible] about $30.,000 will be invested in the enterprise, and [illegible] electric power for operating sugar mills, mining [illegible] machinery and for supplying the towns and ranches of [illegible] region will be generated. Mr. Villanueva owns the [illegible] under which the project is to be carried out. Ca[illegible] Landero y Cos and Enrique Schondube, Elec. Engrs., [illegible] City of Mexico, are interested in the enterprise.

BUILDINGS.

CITY OF MEXICO.—Society of American Colony is reported interested in establishment of a school and library at est. cost of $1[illegible]. R. G. Carlisle is Chn. Finance Com.

WATER-WORKS.

CITY OF MEXICO.—Preliminary work has been started looking to the securing of a water supply for this city from Xochimilco Springs. At this place it is planned to construct water-works, and pumping plants will be installed there to pump water to four large cement and stone reservoirs. From these reservoirs pipe lines will be laid to the city. The Federal Treasury has appropriated $2,500,000 for the fiscal year, and the same sum will be appropriated next year. Engineer Manuel Marroquin, of Rivera, care Direccion General de Obras Publicas, Mexico City, is in charge of the work.

MANUFACTURING PLANTS.

CHIHUAHUA.—Arrangements are being made to establish a paste-board mill at Chihuahua, concession having been obtained from the state government.

GUADALAJARA, JALISCO.—W. T. Thornton, Pres. International Real Estate & Mining Agency, Guadalajara, has sold a 40,000-acre timber tract to Chicago parties. The property is situated near the city of Colima, and, it is said, the purchasers will at once erect saw mills, and commence operations. A branch railway line 12 miles long will be built to facilitate shipments of lumber.

GUAYMAS, SONORA.—J. C. Bothin is to erect a large salt refinery at Guaymas. It is stated that he is to install a new class of machinery superior to any now in use in turning out pure salt.

TAMAULIPAS.—Phil. C. Snodgrass, an engineer of Nogales, Ariz., and H. E. Kemp, a Los Angeles, Cal., engineer, have closed a deal for a large tract of red and white oak timber, on the Tames River, state of Tamaulipas, and a large lumber mill will be erected at once.

MISCELLANEOUS.

TELEPHONE SYSTEM.—City of Mexico.—Jose Sitzenstatter, City of Mexico, has obtained concession from Mexican Government for installation of new independent telephone system in this city. It is stated that Mr. Sitzenstatter represents a Swedish syndicate, in which the firm of L. M. Ericsson & Co., of Stockholm, are largely interested.

TOWN-SITE DEVELOPMENT.—City of Mexico.—The Topolobampo Terminal & Improvement Co., composed of New York capitalists, is being organized to systematically develop town-site of Tobolobampo.

COAL LANDS.—City of Mexico.—Joseph Leiter, of Chicago, Ill., is stated to be negotiating for purchase of coal lands in the state of Coahuila, midway between the two principal producing coal-fields of Mexico. While comparatively little development work has been done, it is estimated that there are several million tons of coal now in sight.

CYANIDE PLANT.—Chihuahua, Mex.—Local reports state that Ex-Senator B. Clark Wheeler will put in a small cyanide plant at Sonbrerete, Zacatecas, where he is operating the Le Noria and San Bartolo mines.

TIMBER LAND DEVELOPMENT.—City of Mexico.—An American company, in which Benjamin B. Chaney, Boston, Mass., and Col. Rutherford Trowbridge, New Haven, Conn., are interested, has purchased a tract of 500,000 acres of white pine and timber land in Western Mexico.

TANKAGE.—Ebano, Tamaulipas.—The Mexican Petroleum Co. has authorized issue of $250,000 gold bonds to provide funds for construction of necessary tankage at Ebano, and for the purchase of tank cars for the transportation of oil, and for other purposes necessary to market the product. It is probable that a number of steel barges will be built to transport oil to Tampico, where it can be loaded on tank steamers.

MINING MACHINERY, ETC.—Guadalajara.—M. V. Gonzalez Perez, a lawyer of Guadalajara, is organizing a company of Chicago capitalists to unwater and operate the Estrella del Sur Anexas mines, in southern part of the state of Jalisco. Modern machinery will be installed.

STAMP MILL.—Guerrero.—Balsas Valley Mining Co., owning property in the state of Guerrero, is to have a meeting of the directors in New York City, to decide whether to suspend operations or not. Should work be continued, it is the intention to erect a 20-ton stamp mill at the mine. W. B. Bull, of Peoria, Ill., is president, and H. H. Miller is Mgr. at the mine.

SMELTER.—Laredo, Nuevo Leon.—The Laredo Mining & Smelting Co. has been organized, in the city of Laredo, to operate the La B. mine, in the Galina district. If the results warrant, the company will erect a smelter at the mine.

CYANIDE PLANT.—Toliman, Queretaro.—National Development Co., which has acquired the San Jose de Gracias mine, in the district of Toliman, state of Queretaro, proposes to erect a 100-ton cyanide mill as soon as possible.

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CONCENTRATING PLANT.—Zacatecas.—The Zaragoza Mining Co., of Zacatecas, has placed an order with the commercial house of Gualterro O. Palmer, of Zacatecas, for a complete concentrating plant, to consist of a crusher, mill, engine and boiler.

PORT IMPROVEMENTS.—Vera Cruz.—By a recent decision of an English Court the charter of the Mexican R. R. can be changed, thus permitting it to raise money for the construction of terminal improvements at this port, an agreement to do which was reached some time ago by that road, the Inter-Oceanic Vera Cruz & Pacific and the Alvaredo Railroads. The improvements will involve expenditure of several million dollars, and the sanctioning of a change in charter of the Mexican R. R. practically assures the undertaking. W. Morcom, City of Mexico, is Gen. Mgr., Mexican Ry.

FOREIGN CONTRACTS—EXPORT NEWS.

BRIDGES.—Turkey.—The Ministere des Travaux Publics in Constantinople will receive offers for the construction of five large steel bridges on the Kaiffa division of the Hedjaz Railroad.

CANAL.—Russia.—The city authorities of St. Petersburg will in the near future award a contract for the building of a canal from the Neva River to Lake Onega, and thence to the White Sea.

TELEPHONE PLANTS.—Spain.—The Spanish Government is about to establish telephone plants in the following towns in Spain: Berga, Gironella, Puigreig, Balsareny, Sallent, Castelladrae, Cardona.

RAILWAYS.—France-Spain.—The Franco-Spanish Convention providing for the construction of three lines of railway across the Pyrenees was signed Aug. 20. The roads are to be completed within three years.

DRAINAGE.—Italy.—The municipality of Spezia, Italy, has voted $1,930 to be awarded as a premium to the competitor who presents the best drainage scheme for Spezia and its suburbs. The competition is open until Dec. 31, 1905.

AIR MOTORS.—Denmark.—The Hasseris Villakvarter Water-works Co. of Aalborg, Denmark, is reported to be in the market as a purchaser of air motors. Detailed information may be obtained from C. Ravn, Villakvarter, Aalborg, Denmark.

CABLEWAY.—Argentina.—The engineering firm of Adolf Bleichert & Co., of Leipsic, is to construct a cableway from the Chilecito Station of Argentine Northern Ry., for a total distance of 32 miles. The cableway is to have a carrying capacity of 44 tons of ore per hour. About 87 miles of rope will be required.

RAILWAY, CANAL.—Panama.—The Panama Government has approved a contract with the United Fruit Co., an American corporation, for the construction of a railway or canal in the province of Bocas del Toro, Panama, to connect the Changuinola and Saxaola Rivers.

DOCK WORKS.—Brazil.—The concession for building docks at Victoria, Espirito Santo State, Brazil, which was awarded the Companhia Brazileira Torrens, has been assigned to the Victoria & Diamantina Railway Co., of Victoria. This work, which will embrace the building of 3,500 feet of wharfage, and of warehouses, electric cranes, and an iron bridge, is to be commenced in the near future.

RAILWAY CONCESSION.—Abyssinia, Africa.—We are informed that a concession for a railway from Dire-Daoua, Abyssinia, is about to be granted. Dire-Daoua is the terminal of the Djibouti & Addis-Abeda Ry., and Harrar is the largest city in Abyssinia. Our correspondent states that the capital necessary for this work is about $250,000 (probably for the purchase of the franchise, etc.). The railway will be about 60 kilometers long, and there will be two stations. The earthwork and ballasting will cost about $60,000, the rails, 10 or 12 kilos a meter, metallic ties, bolts, etc., will cost $40,000; guard stations, $1,000; rolling stock (6 locomotives, 6 vans, 6 passenger cars and 26 freight cars), about $26,000; two stations, $12,000, etc. The estimated earnings are $50,000 a year for freight, etc. This concession will be granted by the Ethiopia Ry. Co. for 40 or 50 years, after which period the line, excepting the rolling stock, becomes the property of the above company. In two years the income is estimated at $60,000 a year. On account of the efforts on the part of the state department at Washington, D. C., to open commercial intercourse between the two countries, American propositions are most especially considered. Our correspondent reports that it is possible that the Dire-Daoua & Addis-Abeda branch of the present railway, just being completed, will be built next year, work to be started in January. Other important public work will be started as soon as the railways are completed. Contractors and others interested in the above mentioned concession may cable for particulars as follows: Jaume, Harrar Abyssinia, as the time is short. M. Jaume is a prominent engineer in Abyssinia, and is connected with the present railway. He is anxious to get into correspondence with American firms. M. Jaume has spent several years in America and is familiar with American methods.

ARGENTINA.

PUBLIC WORKS.—Buenos Aires.—Our correspondent in Buenos Aires sends us the following information concerning public works in this country:

Water-Works, Sewerage.—Cordoba.—A convention was signed July 22 with the Government of Cordoba for sanitary works and water supply in that city, at a cost of $3,919,427, the work to be concluded within 2½ years.

Water-Works, Sewerage.—Mendoza.—A convention was also signed with the Governor of Mendoza for the execution of sewerage works, calculated to cost $800,000, and of water supply works to cost $2,500,000, to be finished within 3½ years.

Port.—Buenos Aires.—The executive has approved the new plans prepared by Messrs. Dirks & Dates, by direction of the Government of Santa Fe, for a port for ocean steamers in front of that city, the cost of which is not to exceed $5,000,000, gold, one half of which will be contributed by the national government. The port will be exploited by the Provincial Government for forty years. The works are to be completed within five years from date of commencement.

Railway Extension.—Buenos Aires.—A message was sent to Congress July 20 by the Department of Public Works, in which it was stated that the only feasible method at present of solving the problem of land communications was to complete the state railway system with the resources produced by it. With these resources the Executive proposes, in a bill accompanying the message, the construction of 1,743 kilometers of railway at a cost of $27,000,000, gold. The lines included in the project are: From Dean Funes to Rosario, with a branch to Sarmiento and another to Villa Maria; from Villa Maria to the military post; from the Province of San Juan to that of Mendoza; from Clodomiro Station, on the Central Northern Railway, to La Banda; and from Lejis Station to Burruyaco. The Executive would be authorized to reduce the gage of the Andine Railway to one meter from Villa Mercedes to Villa Maria and to plan a line from near Porto Muerto, on the Dean Funes and Rosario line, to Buenos Aires, with a branch to La Plata; and finally to acquire lighters and tugs for the fluvial transport of the cargo for the service of the state railways between the ports of Santa Fe and the Federal capital. The $27,000,000, gold, to which the cost of all these works would amount, would be met with railway bonds under the same conditions as those of Law 4064, and also guaranteed by the value of the railways ordered to be constructed by Law 4267, and authorized by the present bill. As to the authorization to emit bonds, they would be limited to $8,563,924, gold.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

FIELD GLASSES AND BINOCULARS.—Lehi, Utah.—Horace W. Sheley, care U. S. Geological Survey, Lehi, writes us that he wishes catalogues of firms handling field glasses and binoculars.

CONTRACTORS AND BUILDERS.—Walla Walla, Wash.—Capt. N. H. Creager, Q. M., U. S. A., wants names and addresses of contractors and builders near here, who might bid on constructing two sets of barracks at Fort Walla Walla.

SMOKE CONSUMERS.—Rome, N. Y.—The Troy Steam Laundry Co., 140 No. Washington St., W. D. Davis, Mgr., write us that it wants information regarding smoke consumers, from both manufacturers and firms using such contrivances.

GARBAGE DISPOSAL PLANTS.—Boston, Mass.—Andrew D. Fuller, Engr., 3 Hamilton Place, informs us that he desires the names of firms making a specialty of garbage disposal with special reference to cremation, either on a large or small scale.

PATENT ON DITCHING MACHINE.—Crookston, Minn.—Martin O'Brien, Atty. at Law, writes at the request of a client, who is desirous of obtaining a patent on a ditching machine, and would like to obtain information on the steps to be taken.

ASPHALT ROLLER.—Little Rock, Ark.—Robt. L. Lund, C. E., Little Rock, writes us that the local asphalt company, of which he is Consulting Engineer, desires to buy at once a 2¼-ton and a 5-ton asphalt roller. State condition regarding boiler, terms and delivery.

STRUCTURAL AND SUPPLY FIRMS IN NORTHWEST.—Portland, Ore.—F. M. Brookie, Engr., 522 Chamber of Commerce, Portland, writes us that he wants the names and addresses of firms near Portland that manufacture structural iron and steel, cement, pig-iron, nails and coke.

WRITER OF CATALOGS.—St. Louis, Mo.—The Helm Trench Machine Co., John Helm, Pres., 4223 Louisiana Ave., wishes to communicate with a writer of catalogs, etc., as the company intends issuing a pamphlet showing its machine, and wants a thorough and able description of the same.

SODA WATER APPARATUS.—New York, N. Y.—Frank B. Stratford, M. E. 95 Liberty St., N. Y., writes that he wants information as to the manufacture of carbonic acid gas commercially as used for aerating waters, etc., and also of the names of manufacturers of soda water apparatus.

WINCHES AND ROCK DRILLS.—Cuba.—G. M. Chamberlain, of Mientas, Santa Lucia, Cuba, informs us that he is in the market for winches and rock drills. Mr. Chamberlain is interested in the laying out of a new town in Cuba. Until Oct. 1 he may be addressed care of H. W. Peabody & Co., 17 State St., N. Y., or 306 W. 94th St., N. Y.

RAILS, SPIKES AND BOLTS.—Smyrna, Del.—E. A. Tennis, Ch. Engr., Peninsula Ry., 922 Stephen Girard Bldg., Philadelphia, writes us that the company will soon be in the market for 1,400 tons of 60-lb. rails, 1,000 lbs. of spikes and 300 lbs. of bolts. W. S. Letterbury, Supt., Middletown, Del.

BOILERS, CORLISS ENGINES (60 × 16); PUMPS, FEED WATER HEATERS, BLAST SYSTEM OF HEATING.—Chicago, Ill.—We are informed that the above will be wanted at once for a 4-story school building, the equipment for which will cost $7,000. R. E. Schmidt is Arch., 172 Washington St., Chicago.

GASOLINE AND COMPRESSED AIR LOCOMOTIVES.—Iowa.—Names and addresses of firms manufacturing gasoline and compressed air locomotives, and requiring only one man to operate, are wanted. The grade is 3%, but high speed is not required. Address E. H. F., care of Engineering News, 220 Broadway, N. Y.

CONVEYORS, ECONOMIZERS AND COMPRESSED AIR.—Washington, D. C.—The Purity Compressed Yeast Co., Inc., Box 205, Washington, writes us that it wants printed matter relating to machinery for handling and saving coal for a 2,000-HP. plant, to be built near Wilmington, Del., and also regarding compressed air.

CONVEYORS, MINING AND SMELTING MACHINERY AND CONSTRUCTION MATERIAL.—San Francisco, Cal.—The Mountain Copper Co., Ltd., 414 California St., writes us that it wishes to receive catalogues of firms manufacturing construction material, conveyors, mining and smelting machinery, etc. The head office of the company is at Keswick, Shasta county, Cal.

BUCKETS (1); CEMENT (2,600 bbls.); CONCRETE MIXER (1 large); DERRICK (1 travelling); HOISTING ENGINES (2); JACKS (4 10-ton hydraulic); PILE DRIVER (1); WIRE ROPE (1,000 ft., ⅝-in.); SHOVELS (hand, 5 doz.).—Toledo, O.—The Peter D. Zink Contracting Co., 627 South Platte St., Toledo, writes that it is in the market for the above, to be used in a proposed bridge pier, work to be begun about Sept. 20.

CHEMISTS and SODA WATER APPARATUS.—Toledo, O.—The Toledo White Lime Co. writes us as follows: "We have a large amount of waste carbonic acid gas from our lime kilns which we wish to utilize. We have been told that there is a great demand for liquid carbonic acid gas. Can you advise us where we can secure equipment for doing this work and whether or not there is a good market for liquid CO_2, and whether carbonic acid gas made by burning lime would have any objectionable features which would prevent us from liquifying it? Also, what pressure is required and about how much capital would it take to put in a plant? We already have sufficient boiler capacity and can get the gas for nothing and have a large quantity of cold quarry water for condensing purposes." It is suggested manufacturers of soda water apparatus and also chemists write to the company regarding their wants. H. P. Dodge is Gen. Mgr.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

SHORE PROTECTION.—Richmond, Va.—Following bids were received by Col. A. M. Miller, U. S. Engrs., Washington, D. C., Aug. 15, for constructing shore protection for Jamestown Island: (1) Richard Parrott, Newburgh, N. Y.; (2) Brady Construction Co., Fairmont, W. Va.; (3) Thos. H. Lyons, Brookland, D. C.; (4) Gleaves & Co., Lynchburg, Va.; (5) Alsop & Peirce, Newport News, Va.:

Bids received at Washington, D. C., August 15, 1904, for Constructing Shore Protection for Jamestown Island.

		(1)	(2)	(3)	(4)	(5
Removing stone protection of 1895	335 cu. yds.	$ .40	$3 00	$ .75	$3.00	$ .40
Removing jetties of 1895	60 lin. ft.	2.00	3.00	5.00	10.00	2.50
Grading, including embankment only	1,750 cu. yds.	.30	3.00	1.00	.85	.00
Broken stone backing, stone furnished by United States	650 cu. yds.	.70	3.50	1.50	2.00	1.53
Broken stone backing, stone furnished by contractor	575 cu. yds.	2.70	4.00	3.00	3 95	3.05
Concrete blocks, laid in place	681 "	9.00	16.00	20.00	19.00	9.50
Monolithic concrete in place	20 "	9.00	12.00	20.00	16.00	8.25
Round oak piles, driven and cut off	1,860 lin. ft.	.30	.92	.40	1.40	.50
3-in. oak sheet piling, driven, sawed off and attached to wales	41,652 ft. B.M.	60.00	65.00	40.00	80.00	77.50
White oak wales, framed and bolted in place	4,872 ft. B.M.	60.00	47.00	40.00	58.00	40.00
" string pieces, framed and bolted in place	2 318 ft. B.M.	60.00	48.00	40.00	58.00	40.00
Steel cramps, leaded in place	370	1.00	.72	.50	1.00	.75
Stone rip-rap in place	20 cu. yds.	2.50	3.75	5.00	4.00	8.00
Totals		$13,004	$27,246	$22,004	$26,726	$15,000

*PLACING STONE.—Portland, Me.—Following bids, per ton, were received Aug. 18 by Major W. M. Black, U. S. Engrs., for placing 20,000 tons of stone on breakwater at Rockland Harbor, Me.: D. S. Belden & Sons, Hartford, Conn., $1.07; Aaron Cleaves, Chebeaque, Me., and Jeremiah H. Hamilton, Rockland, Me., $1.35; William L. White, Rockland, Me., $1.21.

REPAVING.—New York N. Y.—Following bids were received by President of Borough of Richmond, Aug. 16, for labor and materials for regulating, grading and repaving with asphalt on present macadam foundation: St. Mary's Ave., Louis L. Tribus, Acting Pres.; (1) 3,850 sq. yds. sheet asphalt laid, (2) 300 lin. ft. new curbstone set, (3) 2,900 lin. ft. old curbstone set, (4) total:

Barber Asphalt Paving Co., (1) $1.75, (2) $1.30, (3) $0.65, (4) $9,012; Uvalde Asphalt Paving Co., (1) $2.10, (2) $1.00, (3) $0.70, (4) $10,415.

*BRICK PAVING.—Wellsville, N. Y.—Bids were received by this city, T. M. Leonard, Clk., Aug. 25 for paving State, Pearl and Genesee Sts. with brick. The street is to be paved for a length of 1,000 ft. and for a thickness of 34 ft. The thickness of wearing coat is 6-in., and it is to be laid on a 6-in. concrete foundation. The curb is to be of stone. The paving is guaranteed for five years. The following bids were received, the contract being let to Haflick & Co.; (1) F. A. Brotsch, Rochester, N. Y.; (2) Jno R. Barber, Jr., Utica, N. Y.; (3) M. B. Lippincott & Co., Hornellsville, N. Y.; (4) Haflick & Co., Olean, N. Y.:

Items.	Quantities.	(1)	(2)	(3)	(4)
Earth excavation	2,270 cu. yds.	$0.60	$0.25	$0.35	$0.25
Paving	6,566 sq. yds.	1.75	1.67	1.96	1.76
Curb	3,459 lin. ft.	.85	.70	.70	.48
Totals		$16,377	$14,438	$17,032	$14,218

*VALVES AND PIPE.—Youngstown, O.—Following bids were received by Board Public Works, G. T. Prosser, Clk., Aug. 18, for furnishing city with gate valves. Contract awarded C. W. Thomas; (1) 24-in. gate valves (five); (2) 30-in. gate valves (one): Ludlow Valve Co., Troy, N. Y., (1) $211 each, (2) $228; R. D. Wood, Philadelphia, Pa., (1) $198, (2) $350; Kennedy Valve Co., 57 Beekman St., New York, (1) $175, (2) $320; C. W. Thomas, Detroit, Mich., (1) $137, (2) $267; Coffin Valve Co., Boston, Mass., (1) $175, (2) $375.

Bids as follows were also received for (1) 400 ft. 36-in. iron pipe, and (2) 10 tons 24-in. flanged pipe; contract awarded Massillon Iron & Steel Co.: Massillon Iron & Steel Co., Massillon, O., (1) $23.45 per ton, (2) 2¾ cts.;

U. S. Cast Iron Pipe & Fdy. Co., Chicago, Ill., (1) $23 60, (2) 3½ cts.

HYDRANTS.—New York, N. Y.—Following bids were received Aug. 17 by Department Water Supply, Gas and Electricity of New York for furnishing, delivering and setting dock hydrants and appurtenances; (1) Cunningham & Kearns, 438 East 91st St., New York; (2) Norton & Dalton, 215 West 125th St., New York; (3) Lloyd Collis, 21 Park Row, New York; (4) P. Goodman, 108 East 117th St., New York:

INDUSTRIAL NOTES.

THE WESTERN STEEL CAR CO., Chicago, Ill., recently received an order from the Northern Pacific R. R. Co. for 500 box cars.

F. W. BIRD & SON, East Walpole, Mass., are shipping 300,000 sq. ft. of their Hydrex Felt to the city of Portland, Ore., for waterproofing reservoirs of the new water system at that place. D. D. Clarke, City Engineer.

Bids received at New York, N. Y., August 17, 1904, for Furnishing, Delivering and Setting Dock Hydrants and Appurtenances.

Items.		Quantities.	(1)	(2)	(3)	(4)
Straight pipe	per ton	25 tons	$27.00	$30.00	$28.00	$27.00
Special castings	"	2 tons	70.00	60.00	70.00	60.00
Rock excavation	per cu. yd.	50 cu. yds.	4.00	.01	4.00	.35
Earth excavation	"	750 "	.70	.01	.35	.35
Filling	"	750 "	.70	.01	.35	.35
12-in. pipe, to lay	per ft.	100 lin. ft.	.50	.95	.65	.25
6-in. " "	"	800 "	.30	.50	.35	.25
4-in. " "	"	450 "	.25	.50	.25	.25
4-in. extra heavy W. I. galv. pipe and fittings, to furnish, deliver and lay	"	1,700 "	2.00	2.00	1.75	2.15
4-in. gate valves, to furnish, deliver and set	each	29	20.00	15.00	16.75	15.00
Dock hydrants and boxes, to furnish, deliver and set	"	22	25.00	125.00	29.00	35.00
Granite pavement, tar joints	per yd.	350 sq. yds.	1.50	.01	4.00	2.00
Pavement and flagging	"	150 "	.50	.01	.60	.75
Sheet piling	per M.	100 ft. B.M.	30.00	30.00	50.00	40.00
Totals			$7,600	$8,198	$7,616	$7.351

*WATER-WORKS.—Wallkill, N. Y.—Bids were received by Water Commissioners Aug. 23 for constructing waterworks. Bids for furnishing (a) 8-in. pipe, (b) 6-in. pipe, (c) 4-in. pipe, (d) specials, (e) galvanized pipe, (f) frost proofing, (g) boxing, (h) bends, (i) 8-in. vitrified pipe, (j) 8-in. valves, (k) 6-in. valves, (l) 4-in. valves, (m) valve boxes, (n) double fire hydrants, (o) large hydrant, were received as follows: Chas. W. Miller & Son, Utica, N. Y., (a) $24.20, (b) $24.20, (c) $25.20, (d) 2½ cts., (e) 45 cts., (f) 10 and 20 cts., (h) $1, (i) 15 and 16½ cts.; R. D. Wood & Co., Philadelphia, Pa., (a) $24.30, (b) $24.30, (c) $25, (d) 2½ cts., (j) $16.75, (k) $10.75, (l) $4.75, (m) $2.50, (n) $22, (o) $24; Rensselaer Mfg. Co., Troy, N. Y., (j) $16, (k) $10.50, (l) $6.25, (m) $2.50, (n) $22.50, (o) $27; J. Thomson & Co., Philadelphia, Pa., (a) $27, (b) $27.50, (c) $28.50, (d) 2.7 cts., (e) 42½ cts., (h) 85 cts., (j) $17 20, (k) $12.90, (l) $7.65, (m) $2.90, (n) $24; Eddy Valve Co., Waterford, N. Y., (j) $17.50, (k) $11 50, (l) $7.25, (m) $3.50, (n) $23, (o) $25; M. J. Drummond & Co., New York, (a) $25.40, (b) $25.40, (c) $26.40, (d) 2.6 cts., (i) 16 cts., (j) $15.75, (k) $10 15, (l) $6.75, (m) $3.25, (n) $22.75, (o) $24.85; Kennedy Valve Mfg Co., New York, (j) $15, (k) $9.25, (l) $4.75, (m) $2.95, (n) $22.20, (o) $25; Fairbanks & Co., New York, (j) $13.75, (k) $7.50, (l) $5, (m) $2.94, (n) $22 49, (o) $23.47; U. S. Cast-Iron Pipe & Foundry Co., New York, (b) $22.90, (c) $22.90, (d) $24, (e) 2¼ cts. The following parties were bidders for the complete work; (1) L. J. Richmond, Owego, N. Y.; (2) Abbott & Gamble, 32 Broadway, New York; (3) Hollerman & Co., Cohoes, N. Y.; (4) Wm. Stanton, Cohoes, N. Y.; (5) Collins & Craft, Walden, N. Y.; (6) O'Heir & Brooks, Warwick, N. Y.; (7) Wallace & Brown, Mohawk, N. Y.:

WONHAM & MEGOR, 29 Broadway, New York, announce the sale of 12 new Porter locomotives and 150 dump cars to the New York Contracting Co., Pennsylvania Terminal which are to be used on the work in this city.

SANDERSON & PORTER, Contractors, 52 William St., New York, announce that they are doing some construction work in New Orleans, La., and have opened an office at Richard and Water Sts., the postoffice address being Box 300.

THE U. S. WIND ENGINE & PUMP CO., of Batavia, Ill., announces that the business and patent rights of the Tweeddale Water Softening Co. have been acquired, which will henceforth be conducted from the above company's office and under its name.

THE CONTINUOUS RAIL JOINT CO., of America, Newark, N. J., has recently installed at its works in Troy, N. Y., new machinery for the assembling of its insulated rail joints; also the new insert electric bond, that is being placed upon the market.

THE INGERSOLL-SERGEANT DRILL CO., 26 Cortlandt St., New York, has received an order from the Chilian Government for equipment, including a large Corliss compound compressor and a full complement of pneumatic tools for one of its largest shipyards.

THE C. A. MFG. CO., Austin, Tex., informs us that the agency for its "C. A. Wood Preserver" (Carbolineum America) for the states of Oregon and Washington, has been given to the firm of F. T. Crowe & Co., Seattle and Tacoma, and the Woolsey Crowe Supply Co., of Portland, Ore.

Bids received at Walkill, N. Y., August 23, 1904, for Constructing Water Works.

Items.		Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
8-in. pipe	per ton	16,400 ft.	$24.50	......	......	......	$22.00	$24.60	$24.20
6-in. "	"	4,650 ft.	24.50	......	......	......	22.50	24.60	24.20
4-in. "	"	7,550 ft.	24.50	......	......	......	22.50	24.75	25.20
Special	per lb	4 tons	.02⅜	......	......	......	.02¾	.02½	.02½
Gal. pipe	per ft.	350 ft.	.45	......	.42	.41	.60	.40	.45
Frost proofing		325 ft.	.28	......	.08	.10	.30	.30	.20
Boxing		325 ft.	75.00	......	.30	.20	.17	.20	35.00
45° bends		4	1.25	......	1.00	1.00	1.00	.75	1.25
8-in. sewer, vit. pipe	per ft.	1,400 ft.	.21	......	.17	.18	.15	.19	.18
8-in. gate valves		6	16.50	......	......	......	19.50	17.00	17 00
6-in. " "		9	10.85	......	......	......	13.00	11.00	11.50
4-in. " "		15	7.00	......	......	......	8.25	7.50	7.25
Valve boxes		30	3.25	......	......	......	3.50	2.50	2.75
Hydrants		30	22.75	......	......	......	23.50	22.50	22.50
"		1	25.00	35.00	......	......	30.00	24.00	24.00
Laying 8-in. pipe 4 ft. 9 in			.28	.40	.24	.27	.28	.35	.25
" 6-in. " "			.22	.37	.19	.25	.26	.26	.23
" 4-in. " "			.20	.35	.17	.20	.22½	.20	.20
" 8-in. " 4 ft			.31	.38$\frac{4}{10}$	.24	.27	.28	.33	.25
" 4-in. galv. pipe, etc			175.00	.40	.15	20.00	......	50.00	.25
" 8-in. on brick fill in cut	per yd.		.40	.49	.24	.32	.30	.58½	.50
" 8-in. vit. pipe			.33	.44	.24	.40	.17	.75	.36
" 8-in. blow-off pipe			.41	.44	.10	.20	.17	.60	.45
Excavating rock	per cu. yd.		2.50	5.00	4.00	3.00	2.00	3.50	2.00
Setting Hydrants			1.50	5.00	1.00	2.00	3.00	1.00	2.00
" 8-in. valves			.75	5.00	1.00	1.00	2.00	.75	1.50
" 6-in. "			.75	4.00	1.00	.75	2.00	.65	1.50
" 4-in. "			.50	3.50	1.00	.50	2.00	.50	1.00
Excavating for catch basin	per cu. yd.		1.25	.60	.26	1.00	.50	.55	.50
Concrete bottom catch basin	"		7.50	6.00	6.00	7.00	5.00	10.00	7.00
Roof for catch basin			50.00	36.00	30.00	100.00	26.00	100.00	50.00
Catch basin	lump sum		......	120.00	......	......	105.00	233.15	200.00
Excavating for reservoir	per cu. yd.		.61	.36	.26	.60	.94	.40	.40
Concrete for reservoir	"		7.75	6.00	6.00	7.00	5.00	10.00	7.00
Reservoir 100 ft. sq	lump sum		......	1,920.00	......	......	3,651.00	3,050.00	2,400.00
Reservoir 100 ft. sq., concrete bottom, paved side	"		......	1,800.00	1,779.00	2,947.00	3,711.00	2,820.00	2,000.00
Reservoir 80 ft. sq., concrete sides and bottom	"		......	1,260.00	......	2,457.00	2,968.80	2,500.00	......
Puddling	per cu. yd.		1.00	1.25	.40	1.00	5.00	1.40	2.00
Stone paving	per sq. yd.		1.00	1.00	.70	.75	60, 70, 80c.	1.00	1.50
Gravel concrete			......	6.00	5.50	6.00	5.00	9.00	6.00

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

ELECTRIC MOTORS.—Richmond Electric Co., Richmond, Va. Paper; 8 × 10½ ins.; pp. 2.

This sheet describes a moderate speed motor, made in sizes up to 50 HP. A list of dimensions, etc., is also given.

FEED WATER HEATERS.—Warren, Webster & Co., Camden, N. J. Paper; 3½ × 6 ins.; pp. 20; illustrated.

A concise argument in favor of the Webster heater is presented.

ELECTRIC HOISTS.—Thomas Elevator Co., 115 Hoyne Ave., Chicago, Ill. Paper, three folders; 7¾ × 11¼ ins. and 8 × 8 ins.; illustrated.

These folders describe different styles of single and double drum hoists, suitable for pile driving, mining and construction work. They are fitted with motors of 10 to 25 HP., and are operated by controllers of the street-car type.

DYNAMOS.—Bullock Electric Mfg. Co., Cincinnati, O. Paper; 6 × 9 ins.; pp. 28; illustrated.

Serial bulletin No. 1029 describes direct current generators of "engine type," dwelling on the distinctive Bullock points of construction. Dimension tables are appended.

DRILLS AND REAMERS.—Cleveland Twist Drill Co., Cleveland, O. Paper; 6 × 9 ins.; pp. 117; illustrated.

This book is the complete catalogue of the Cleveland Twist Drill Co., and covers by illustration, listing, price, telegraph code, etc., all styles and kinds of drills, hand or machine, with all varieties of shanks; also reamers, taps, milling cutters and some minor tools.

STEAM ENGINES.—Buckeye Engine Co., Salem, O. Paper. 10 × 6¾ ins.; pp. 125; illustrated.

The Buckeye engines, both simple and compound, in various types and arrangements, are fully discussed in this catalogue. The first half is devoted entirely to illustrations, while the second half contains text-discussion and tables.

BRICK PAVING.

Delaware, Ohio, Aug. 29, 19

Sealed proposals will be received until Se 9, 1904, addressed to Clerk of Board of P lic Service, for furnishing materials and la necessary to construct brick paving and s curb.

The estimated cost is $40,000.

The principal items are 17,700 yards br paving and 4,800 feet of curbing.

Each bid must be accompanied by a ce tified check for $500.

Plans and specifications may be seen at th office of City Engineer or City Clerk.

The right is reserved to reject any or a bids.

9-1t J. S. DIKE.

GRANITE PAVING.

Glens Falls, N. Y., Aug. 30, 1904.

The Village of Glens Falls will let about 3,400 yards of granite paving Sept. 12, 1904.

GEO. P. SLACK,
9-1t Village Engineer.

September 3, 1904.

SEALED PROPOSALS will be received at the office of the National Home for Disabled Volunteer Soldiers, 346 Broadway, New York, N. Y., until 12 o'clock m., Friday, September 30, 1904, and then opened, for furnishing materials, labor, etc., for the construction of a Memorial Hall at the Mountain Branch, N. H. D. V. S., near Johnson City, Tennessee. Plans may be seen, and copies of instructions and specifications, together with blank proposals and other information had, upon application to the architect, J. H. Freedlander, 244 Fifth Avenue, New York, N. Y.; to the Superintendent of Construction, Mountain Branch, Johnson City, Tenn.; and to Moses Harris, General Treasurer, 346 Broadway, New York, N. Y. 9-4t

DEPARTMENT OF THE INTERIOR, Washington, D. C., August 30, 1904.—Sealed proposals, in duplicate, will be received by the Engineer U. S. Geological Survey, Lawton, Okla., up to 2 o'clock p. m., October 10, 1904, for the erection of nine public buildings in Oklahoma Territory, as follows: One court house and one jail building in each of the cities of Lawton, Comanche County; Anadarko, Caddo County, and Hobart, Kiowa County; one 8-room and one 4-room school building in the city of Lawton, and one 8-room school building in the city of Hobart; and also for moving into each of said jail buildings and properly installing in the same steel jail cells now located in temporary structures on the respective court house lots. Bids should be addressed to the Engineer, U. S. Geological Survey, Lawton, Okla., and will be publicly opened at 2 o'clock p. m., October 10, 1904, at the office of the U. S. Geological Survey, Lawton, Oklahoma. Specifications and forms of proposal may be obtained on application to the Engineer, U. S. Geological Survey, Lawton, Okla., or to Mauran, Russell & Garden, Chemical Building, St. Louis, Mo.; the latter will also furnish complete sets of plans upon receipt of draft or money order for $6.15. Each bid must be accompanied by a certified check, payable to the order of the Secretary of the Interior, for 2 per cent. of the aggregate amount thereof, as a guarantee that the bidder will, if successful, promptly execute a satisfactory contract and bond in the sum of 50 per cent. of the contract price for the faithful performance of the work. The cost of construction of the buildings and moving of prison cells is to be paid out of the funds derived from the sale of town lots in Lawton, Anadarko and Hobart, respectively, held in August, 1901, as provided by the acts of March 3, 1901, and June 30, 1902. The right is reserved to reject any and all bids, waive technical defects, and accept any part of any bid and reject any other part, if the interests of the Government require it. THOS. RYAN, Acting Secretary. 9-6t

U. S. ENGINEER OFFICE, Louisville, Ky., August 30, 1904.—Sealed proposals for steel lock gates, etc., will be received here until 12, noon, standard central time, September 30, 1904, and then publicly opened. Information furnished on application. H. BURGESS, Capt., Engrs. 9-4t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., August 30, 1904.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 5th day of October, 1904, and then opened for the construction (except heating apparatus) of the U. S. Post Office at Pekin, Illinois, in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Postmaster at Pekin, Illinois, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 9-2t

U. S. ENGINEER OFFICE, New London, Conn., Aug. 26, 1904.—Sealed proposals in triplicate for dredging at Milford Harbor, Conn., will be received here until 12 o'clock noon, Sept. 17, 1904, and then publicly opened. Information furnished on application. C. F. POWELL, Lt.-Col., Engrs. 9-3t